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PHASE 1: DESK TOP STUDY REPORT

PROPOSED RESIDENTIAL DEVELOPMENT

- CHURCH LANE
- **WHITBURN**

SUNDERLAND

TYNE & WEAR

<u>SR6 7JN</u>

Project No: 13-806

Prepared By:

Darren M^cGrath

An

Date:

03/02/2014

Approved By:

Kevin Moir

03/02/2014

Date:

The information and/or advice contained in this Phase 1: Desk Top Study Report is based solely on, and is limited to, the boundaries of the site, the immediate area around the site, and the historical use(s) unless otherwise stated. This 'Report' has been prepared in order to collate information relating to the physical, environmental and industrial setting of the site, and to highlight, where possible, the likely problems that might be encountered when considering the future development of this site for the proposed end use. All comments, opinions, diagrams, cross sections and/or sketches contained within the report, and/or any configuration of the findings is conjectural and given for guidance only and confirmation of the anticipated ground conditions should be considered before development proceeds. Agreement for the use or copying of this report by any Third Party must be obtained in writing from Arc Environmental Limited (ARC). If a change in the proposed land use is envisaged, then a reassessment of the site should be carried out.





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1.0 Introduction

February 2014

Arc Environmental Limited has been instructed by Fitz Architects Ltd, to undertake a Phase 1: Desk Top Study Report for the redevelopment of an area of land, located off Church Lane, Whitburn. At this stage it is understood that the redevelopment works will involve the construction of a residential property with private gardens and areas of hard standing.

The primary objectives of the report is to assess the geological and contaminated land conditions on and beneath the surface and a preliminary Conceptual Site Model (CSM) has been developed to define the scope and extent of any further investigation works deemed necessary, prior to commencing with any future redevelopment works. A site walkover (reconnaissance survey) was completed as part of this report and relevant features noted and summarised in Table 2.1 below. Site photographs are included within Appendix I.

2.0 Physical Setting

2.1 Site Details:-

<u>Table 2.1</u>	N=North, S=South etc
Site Name & Address:	Church Lane, Whitburn, Sunderland, Tyne & Wear, SR6 7JN.
National Grid Reference:	440620, 561670 (representative for the central part of the site).
Description of Location:	The site forms part of the gardens to The Close (residential property), located to the west of
	Whitburn Cricket Ground on the southern outskirts of Whitburn.
Site Boundaries:	N = Grounds of Whitburn Hall, E = Cricket Ground, S =Park grounds,
	W = The Close and Church Lane beyond.
Site Shape &	The site is irregular in shape. The redevelopment works will involve the construction of a
Development Details:	residential property with private gardens, areas of hardstanding and access road.
General Topography:	From Ordnance Survey plans the general topography shows a slight fall to the
	south/southeast, although the site is generally level.
Site Surfacing:	The site surfacing generally comprises of grass and rough heavily overgrown vegetation with
	dense mature trees. A tarmac access track and small area of concrete is noted on the
	southern portion of the site
Above Ground Structures:	Relic walls and pillars are recorded on the central portion of the site.
Sub-surface Structures	Services may be present below the site, i.e. electricity, drainage, etc. associated with the
	adjacent buildings to the west of the site. In addition, relic foundations may be present
	associated with buildings previously recorded on the southern portion of the site
Summary of Recorded	The southern portion of the site has been developed from as early as c.1895 with several
Historical Features:	buildings recorded on site. By c.1896 the majority of the buildings have been demolished
	with only a single building recorded. From c.1959 up until c.2008 Church Lane House was
	recorded. The northern portion of the site appears to form part of the gardens to the
	adjacent Rectory (later The Close) from around c.1896.

3.0 Environmental Setting

3.1 Site Geology:-

The geological assessment for this site has been based on records produced by the British Geological Survey (BGS). The following documents have been reviewed as part of this study:-

- Sunderland, Sheet 21, England and Wales, Solid and Drift Edition, 1:50,000 Series
- BGS Borehole Record Sheet NZ46SW193



3.0 Environmental Setting (Cont'd)

3.1 Site Geology (Cont'd):-

3.1.1 Made Ground

Published BGS data indicates there is no made ground materials on or within close proximity to the site. However, made ground is likely to be present on site associated with the construction of the former buildings and historical garden landscaping. Any made ground present is likely to comprise disturbed natural strata and anthropogenic debris (i.e. bricks, concrete, etc.).

3.1.2 Drift Deposits

Published BGS data indicates that the site is underlain by Pelaw (Upper) Clay, generally comprising dark brown to purple-brown sandy gravely clay. BGS borehole NZ466SW193 completed c.250m to the west of the site, recorded soft sandy clay overlying firm brown and grey sandy gravely clay to a depth of at least c.4.00m below ground level.

3.1.3 Solid Geology

The solid geology underlying the site is shown to comprise the Upper Magnesian Limestone (UML): Roker Dolostone (limestone) formation, with this recorded as being c.>100m in thickness.

3.2 Coal Mining Risk Assessment:-

As highlighted within Section 3.1.3 and in accordance with the BGS data the site is underlain by Magnesian Limestone deposits which are absent of productive coal seams. Although the site lies in a coal mining area, as defined by the Coal Authority, this does not lie within a development high risk area. In addition, no mine entries are recorded within 1km of the site and no probable shallow workings are anticipated. Therefore, it is felt that the site is at not at risk from potential future instability issues from shallow coal mining activities and as a result, no further assessment or intrusive investigation works are deemed necessary for this development.

3.3 Site Hydrogeology:-

The aquifer designations for the variable deposits present below this site have been based on records produced by the Environment Agency. Aquifer Designation Maps & Groundwater Vulnerability Maps are contained within the Landmark Information Group, Envirocheck Report and these Maps can be seen attached in Appendix II, and which have identified the following;

STRATA	Aquifer / Soil Leachability	Comments
SIRAIA	1 .	<u>Comments</u>
	EA Classification	
Made Ground:	Soils of High Leaching	Soil information for restored mineral workings and urban areas
	Potential (U).	based on fewer observations than elsewhere. A worst case
		vulnerability classification (H) assumed, until proven otherwise.
Drift Geology:	Recorded as Low Permeability	The site is situated in an area shown to be underlain by Clay and
	Deposits.	as such are likely to exhibit low permeability characteristics.
Solid Geology:	Principal Aquifer.	These are layers of rock or drift deposits that have high
		intergranular and/or fracture permeability - meaning they
		usually provide a high level of water storage. They may support
		water supply and/or river base flow on a strategic scale.

Table 3.1

- The site is not situated within a Source Protection Zone (SPZ).
- There are no surface water or groundwater abstraction points recorded within c.1km of the site.
- A shallow continuous groundwater surface (water table) is unlikely to be present below the site. Deep groundwater is anticipated to be present within the solid geological deposits.



3.0 Environmental Setting (Cont'd)

3.4 Site Hydrology:-

Table 3.2

SURFACE WATER	Location	Comments
FEATURE		
GQA Classified River	None recorded within c.250m.	~
Unclassified	Two recorded within c.250m.	Two ponds are recorded c.170m to the west and c.160m to
Watercourse(s), Canals,		the south of the site.
Ponds & Lakes		
Flooding	The site is shown to fall	It is recommended that further consultation with the LA and
(EA Flood Data)	outwith the designated Flood	EA should be made with respect to the potential for flood
	Zone II & III.	events in this area and to establish local knowledge of
		periodic flooding, standing water or poor drainage problems.
RAINFALL	Measurements (mm)	Comments
Annual	651.1	
Precipitation, January	52.3	Based on 'station average' records from Durham: 1981-2010.
Precipitation, July	54.0	

3.5 Site Ecology:-

The site lies in an area of Adopted Green Belt associated with South Tyneside Council.

3.6 Radon Assessment:-

The site lies in an area where less than 1% of homes are above the action level, in accordance with the British Geological Survey (BGS), National Geoscience Information Service and their assessment suggests that the site requires no radon protection measures for new dwellings. This corresponds with the BRE Digest, BR211 (2007) Radon: Guidance on protective measures for new buildings, the site is situated within a clear grid square (1km), and therefore no radon protective measures are required for the site.

4.0 Industrial Setting

4.1 Recent Site History:-

Copies of old survey plans covering this site area and adjacent land are included in Appendix II and a summary of the site history based on these plans is provided in Table 4.1 below and continued on the following page.

<u>Table 4.1</u>		Sig	nificant features/potential contamination sources highlighted in bold text.
Date	Scale	Site	Adjacent Areas
c.1862 –	1:10,560	The site appears to form part of	A Church is recorded c.80m to the west of the site.
		the gardens to The Rectory c.40m to the west.	Whitburn Hall is recorded cx.80m to the north of the site. Residential properties are recorded to the north and west of the site.
c.1895	1:2,500	Several buildings (type unknown) are recorded on the southern portion of the site.	Generally as c.1862.
c.1896 – c.1951	1:2,500 & 1:10,560,	The majority of the buildings are no longer recorded albeit for single building on the eastern boundary of the southern portion of the site. Footpaths are recorded on the northern portion of the site.	Residential development to the west and north-east has occurred. Pavilion and later cricket ground are recorded to the immediate east of the site.



4.0 Industrial Setting (Cont'd)

4.1 Recent Site History (Cont'd):-

Table 4.1 (Cont	<u>'d)</u>	Sig	nificant features/potential contamination sources highlighted in bold text.
c.1959 –	1:1,250 &	Church Lane House is recorded on	Cornthwaite Park with bowling greens, tennis courts,
c.2 008	1:10,000	the southern portion of the site.	etc., is recorded to the immediate south of the site.
			Residential development to the surrounding areas has
			continued to grow.
c.2013	N/A	Church Lane House is no longer	Generally as c.1959 – c-2008.
(Present Day)		recorded. A relic wall on the	
		central portion of the site.	

4.2 Landfill & Waste:-

The following information relating to landfill and waste has been obtained Landmark Information Group, the Environment Agency and walkover survey completed;

- There are no active landfill sites recorded on or within c.250m of this site.
- There are no BGS or historical landfill sites recorded on or within c.250m of this site.
- There are no licensed waste management facilities recorded on or within c.250m of this site.
- There are no registered waste transfer, treatment or disposal sites recorded on or within c.250m of this site.

When considering the above, it is felt that the proposed development will not be at risk from hazardous ground gas migration/ production and therefore, no further assessment (i.e. ground gas monitoring) will be required. However, if significant thicknesses of made ground/biodegradable materials are noted during the investigation works, this would need to be re-assessed.

4.3 Statutory Requirements / Authorisations:-

|--|

<u>1 able 4.2</u>		
<u>TYPE</u>	Location	Comments
Local Authority	None recorded within c.250m.	~
Pollution Prevention		
and Controls		
Local Authority	None recorded within c.250m.	~
Integrated Pollution		
Prevention and Control		
Registered Radioactive	None recorded within c.250m.	~
Substances		
Prosecutions Relating to	None recorded within c.250m.	~
Authorised Processes		
Enforcement and	None recorded within c.250m.	~
Prohibition Notices		
Planning Hazardous	None recorded within c.250m.	~
Substances Consents /		
Enforcements		
COMAH Sites	None recorded within c.250m.	~
Contemporary Trade	Two recorded within c.250m.	Associated with Glass Engravers & Decorators (inactive
Entries		status) c.209m to the north and Hardware Suppliers (now
		inactive status) c.239m to the north-east of the site. These
		are not felt to represent a significant risk to the proposed
		development. (See Envirocheck ref. nos. 12 & 13 for
		further details).
Fuel Station Entries	None recorded within c.250m.	~



4.0 Industrial Setting (Cont'd)

4.4 Pollution Incidents and Discharge Consents:-

Table 4.3

<u>TYPE</u>	Location	Comments
Discharge Consents	Two recorded within c.250m.	Associated with sewage discharges to controlled seas
		(North Sea) located c.237m to the south-east. Not felt to
		represent a risk to the proposed development (See
		Envirocheck ref. no. 1 for further details).
Water Industry Act	None recorded within c.250m.	~
Referrals		
Prosecutions Relating	None recorded within c.250m.	~
to Controlled Waters		
Pollution Incidents to	None recorded within c.250m.	~
Controlled Waters		
Substantiated Pollution	None recorded within c.250m.	~
Incident Register		

5.0 Conceptual Site Model (CSM)

The Conceptual Site Model (CSM) is one of the primary planning tools that can be used to support the decision making process of managing contaminated land and groundwater on any given site, and allows a better understanding of what needs to be done to achieve risk management, and from this appropriate remediation techniques, if required for those risk management goals can be chosen. This can be done by undertaking a *source-pathway-receptor* analysis of the site. The anticipated *sources, pathways* and *receptors* for this site are summarized in Table 5.1 below:-

A graphical representation of the CSM has been produced for this site and can be seen attached in Appendix III which sets out the critical pollutant linkages of concern for this particular site, with regard to contamination as highlighted in Table 5.1.

Table 5.1

2)	<u>Receptors (R)</u>		Pathways (P)		Sources (S)	
h	Human health	R 1	Ingestion	P 1	Made ground – anticipated	S1
truction	(End users and construction		Inhalation of indoor /	P2	to comprise disturbed	
	workforce)		outdoor air		natural strata with	
s recorded	Surface Water – Ponds recorded	R 2	Dermal contact	P3	anthropogenic debris.	
c.160m to	c .170 m to the west & c .160 m to					
ndwater	the south and Groundwater					
fer)	(Principal Aquifer)					
als*	Building materials*	R3	Migration through existing	P 4		
			services			
S	Adjacent sites	R 4	Direct contact with building	P5		
			materials			
ıa*	Flora and fauna*	R5	Surface run off	P6		
f a s	(Principal Aquif Building materia Adjacent sites	R4	Direct contact with building materials	P5		

* = Not included in the Human Health & Controlled Waters Risk Assessment

5.1 Geotechnical Considerations:-

The following potential geotechnical issues and hazards have been identified for this site, and these issues should be considered before future redevelopment of the site is to take place.

• Actual depth, origin, variability and condition of made ground present on site.



5.0 Conceptual Site Model (CSM) (Cont'd)

5.1 Geotechnical Considerations (Cont'd):-

- Stability of excavations if localised significant thickness of made ground are present below the site.
- Control of surface drainage.
- Geotechnical parameters of the natural drift deposits below the proposed development area.
- Sub-surface structures (i.e. foundations associated with the building previously recorded on site).

In order to determine the geotechnical considerations above with more certainty, it is recommended that intrusive investigation works and associated testing are carried out on this site. These should take place prior to commencing with any developments in the future. Following this work, detailed foundation proposals for future structures can then be prepared.

The information reviewed indicates that the site can be considered as being located within a **LOW** geotechnical risk setting.

5.2 Sources of Contamination and Probable Contaminants:-

The historical Ordnance Survey maps, the Landmark Envirocheck Report and other environmental information revealed that the site has been developed from as early as c.1895 with several buildings recorded on the southern portion of the site whilst the northern portion formed part of the gardens to the adjacent Rectory. By c.1996 the majority of the buildings were no longer recorded albeit for a single building. From around c.1959 until c.2008 the Church Lane House was recorded on the southern portion of the site.

Taking into account the above, the main on site contamination issues are highlighted and listed below;

• Potential areas of made ground from construction and demolition of the buildings previously recorded on site.

It is therefore concluded that some ground contamination testing will need to be incorporated into the design of any intrusive investigation works. Laboratory testing should also be undertaken on representative samples taken from site for naturally occurring contaminants which could have a detrimental effect on building materials.

In consideration of the above and when taking into account the guidance contained in the DEFRA and EA Contaminated Land Reports and the appropriate DoE industry profiles, it would be prudent to test samples of soil from this site for a range of contaminants, as below;

<u>Soils – Human Health;</u>

Typically comprising; Arsenic, Cadmium, Chromium (total, III & VI), Copper, Lead, Mercury, Nickel, Selenium, Zinc, Cyanide and Total Organic Carbon (TOC), Speciated Polycyclic Aromatic Hydrocarbons(PAH's) and Asbestos (if identified).

Additional contamination testing for, Total Petroleum Hydrocarbons (TPH's) should also be undertaken if there is any visual or olfactory evidence of fuels / oils present in the ground.

The information reviewed indicates that the site can be considered as being located within a **LOW** ground contamination risk setting for Human Health.



5.0 Conceptual Site Model (CSM) (Cont'd)

5.2 Sources of Contamination and Probable Contaminants (Cont'd):-

Groundwater/Leachate - Controlled Waters;

The following issues have been taken into consideration when assessing the risks towards groundwater / controlled waters;

- Two Ponds are recorded c.170m to the west and c.160m to the south of the site.
- Groundwater below the site has been classified as a Principal Aquifer within the solid geology.
- There are no water abstraction points recorded within c.1km of the site.

There is felt to be a low risk of ground contamination on this site due to the lack of plausible sources. However, if elevated levels of any of the aforementioned contaminants are identified within the soils, then targeted leachate and / or groundwater testing (if samples can be obtained) should be carried out and the risk to controlled waters and adjacent sites should be assessed.

This assessment should be revisited following the completion of site investigation fieldworks. However, at this stage the following has been determined;

The information reviewed indicates that the site can be considered as being located within a **LOW** ground contamination risk setting for Controlled Waters.

5.3 Preliminary Risk Assessment Summary & Recommendations:-

<u>Human Health</u> – this stage there is felt to be a low risk to human health. This is due to the limited anticipated sources of heavy or gross contamination on site.

<u>Controlled Waters</u> – At this stage, it is considered that groundwater beneath the site is at low risk when considering the environmental setting. However, this will need to be reassessed if elevated levels of contamination are encountered during the intrusive works.

Therefore, it is recommended that a Phase 2: Ground Investigation (intrusive investigation) is completed for this site to determine if any ground contamination is present which could pose a risk towards the proposed end users or the environment. This investigation should be completed prior to commencing with any future developments and should include for the following or similar investigation works;

- A series of boreholes including insitu geotechnical testing (Shear Vane / SPT testing) and sampling to help aid with future foundation design for the proposed development and to collect samples for subsequent laboratory testing.
- Laboratory geotechnical testing (i.e. liquid & plastic limits, pH & soluble sulphate testing, etc.).
- Soil contamination screening on selected samples recovered from the boreholes typical contaminants detailed in Section 5.2.
- Leachate / ground water contamination screening on selected samples recovered from the boreholes if elevated levels in the soil are recorded.
- Site supervision and production of a factual and interpretive Phase 2: Ground Investigation Report, including a Level 1 Ground Contamination Risk Assessment.

The samples of soil collected should be forwarded to UKAS and MCERTS accredited laboratory to undertake the recommended testing.



5.0 Conceptual Site Model (CSM) (Cont'd)

5.3 Preliminary Risk Assessment Summary & Recommendations (Cont'd):-

Following the completion of the Phase 2: Ground Investigation works, if significant ground contamination issues are identified, it is recommended that a Remediation Strategy is prepared and agreed with the LPA. After completion of any remediation works, a Validation Report will be required for the development as a whole.

End of Report



GENERAL REFERENCES

- British Geological Survey: Maps, Reports, Memoirs, etc.
 - o Sunderland, Sheet 21, England and Wales, Solid and Drift Edition, 1:50,000 Series
 - o BGS Borehole Record Sheet NZ46SW193
- Landmark Information Group, Envirocheck Report, ref: 26854816_1_1
- DoE, DEFRA & EA Contaminated Land Reports.

CLR 1: A framework for assessing the impact of contaminated land on groundwater and surface water. Report by Aspinwall & Co. Volumes 1 & 2. DoE, 1994.

CLR 2: Guidance on preliminary site inspection of contaminated land. Report by Applied Environmental Research Centre Ltd. Volume 1. DoE, 1994.

CLR 3: Documentary research on industrial sites. Report by RPS Group plc. DoE, 1994.

CLR 4: Sampling strategies for contaminated land. Report by The Centre for Research into the Built Environment, The Nottingham Trent University. DoE, 1994.

CLR 5: Information systems for land contamination. Report by Meta Generics Ltd. DoE, 1994.

CLR 6: Prioritisation & categorisation procedure for sites which may be contaminated. Report by M J Carter Associates. DoE, 1995.

CLR11: Model Procedures for the Management of Land Contamination. DEFRA/EA, 2004.

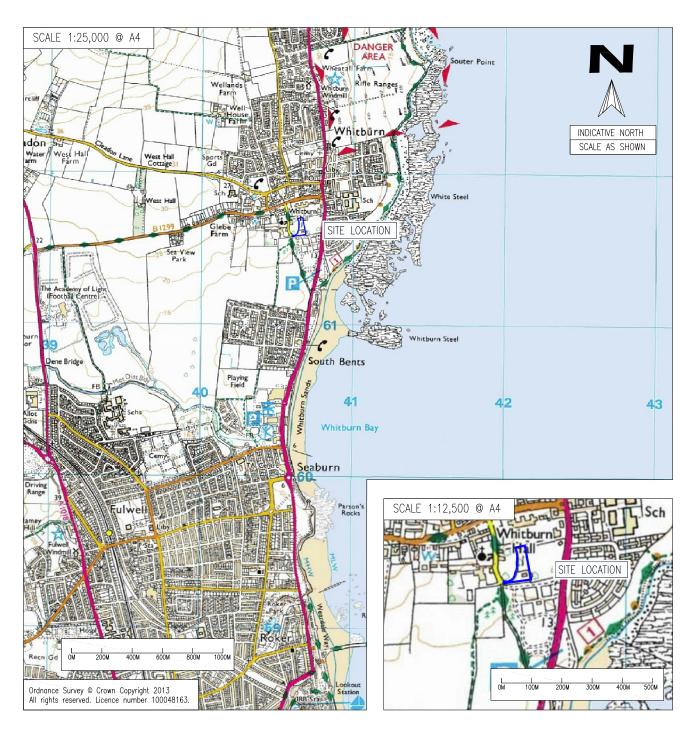
Science Report Final SC050021/SR2: Human Health Toxicological Assessment of Contaminants in Soils, 2009. Science Report Final SC50021/SR3: Updated Technical Background to the CLEA Model, 2009. Science Report SC050021/SR4: CLEA software (version 1.06) handbook, 2009.

- BS10175:2011 + A1:2013 Investigation of Potentially Contaminated Sites, Code of Practice.
- BS5930:1999: Code of Practice for Site Investigations.
- BRE Digest BR211 (2007): Radon: Guidance on Protective Measures for New Buildings.
- Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D66, 2008 (NHBC, EA, CIEH).
- Methane and Associated Hazards to Construction CIRIA Reports 149,150,151 & 152.
- Assessing Risks Posed by Hazardous Ground Gases to Buildings, CIRIA C665, 2007.
- BS8485: 2007: Code of Practise for the Characterization and Remediation from Ground Gas in Affected Developments.
- BS8576: 2013 Guidance on Investigation for Ground Gas. Permanent Gases and Volatile Organic Compounds (VOC's).
- CIRIA Report C624 'Development and flood risk guidance for the construction industry' and National Planning Policy Framework, March 2012.



APPENDIX I

Location Plan Aerial Photograph Existing Site Layout Plan Proposed Development Layout Plan Site Observations – Walkover Record Sheet



Client:

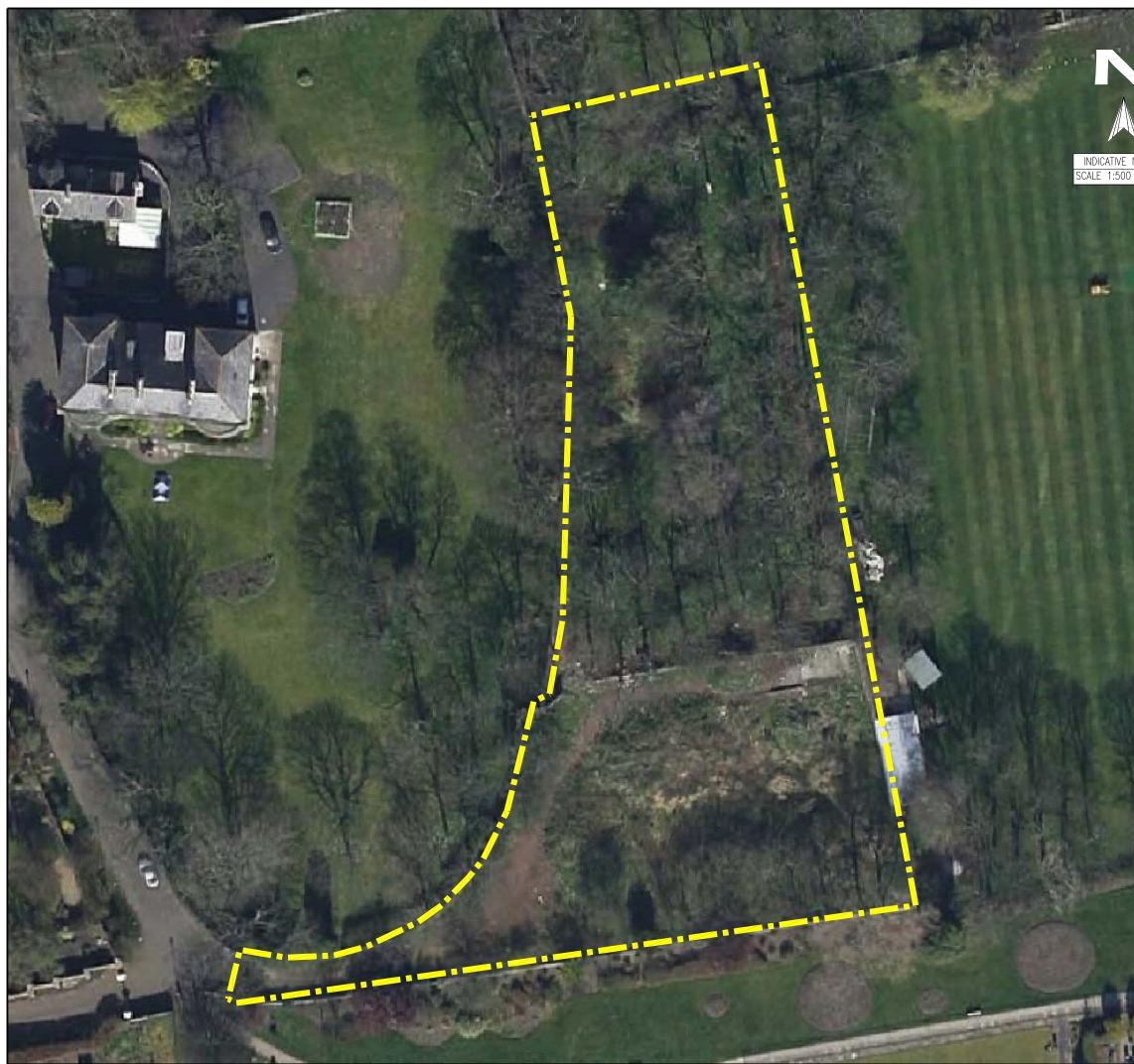
MR & MRS THOMPSON

Project Title: Proposed Site Redevelo	pment	Drawing	Title:
Church Lane House, Ch	iurch Lane	Location	Plan
Whitburn, Sunderland, Ty	ne & Wear		
Job Reference:	Drawing Number:		Revision:
13-806	_		_
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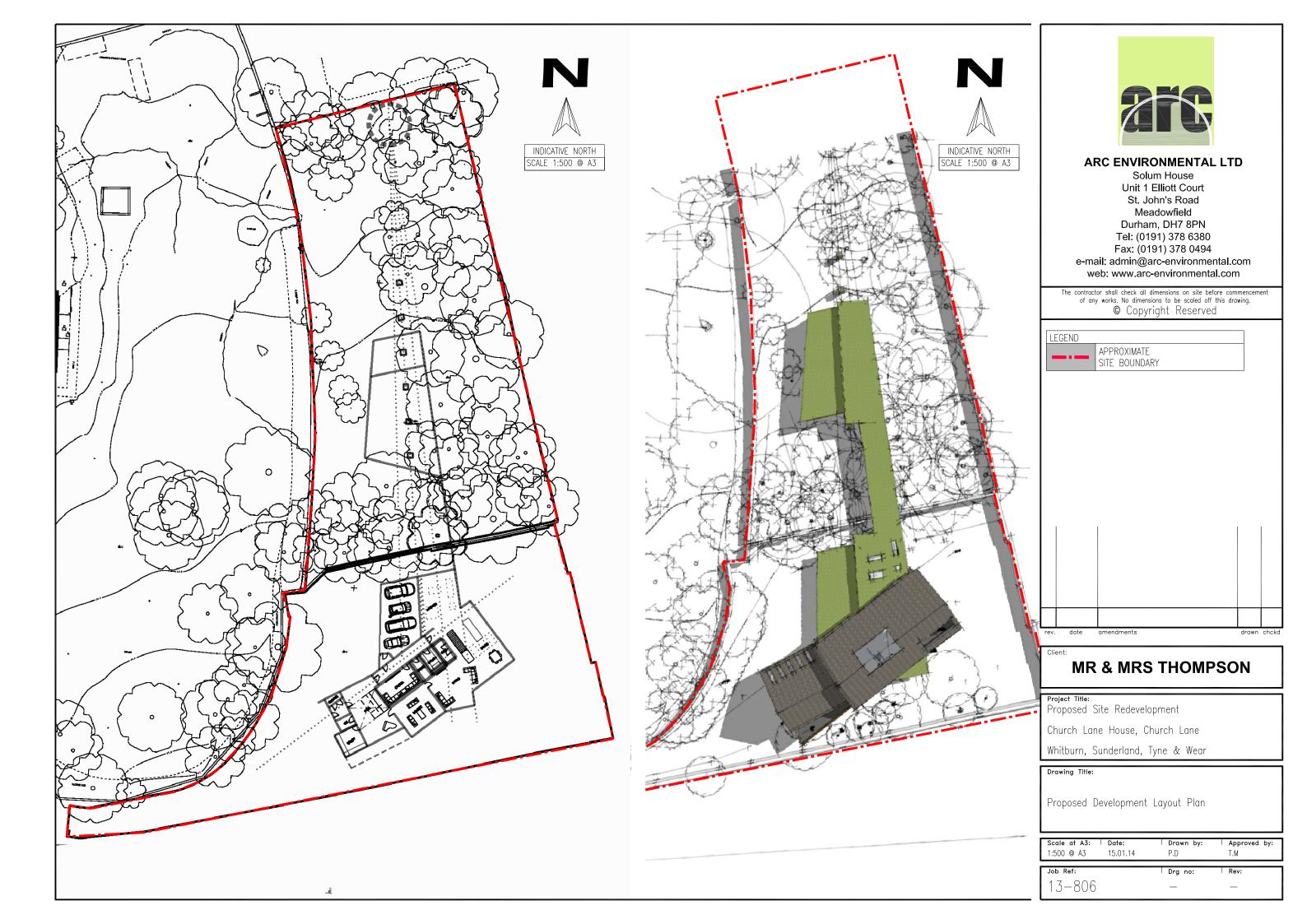




NORTH @-A3	ARC ENVIRONMENTAL LTD Solum House Unit 1 Elliott Court St. John's Road Meadowfield Durham, DH7 8PN Tel: (0191) 378 6380 Fax: (0191) 378 0494 e-mail: admin@arc-environmental.com
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	LEGEND APPROXIMATE SITE BOUNDARY
	rev. date amendments drawn chckd
	Client: MR & MRS THOMPSON
	Project Title: Proposed Site Redevelopment Church Lane House, Church Lane Whitburn, Sunderland, Tyne & Wear
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v	Church Lane House, Church Lane		
	Whitburn, Sunderland, Tyne & Wear		
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	Existing Site Layout Plan		
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	13-806		





ARC ENVIRONMENTAL LTD Solum House Unit 1 Elliott Court St. John's Road Meadowfield Durham, DH7 8PN Tel: (0191) 378 6380 Fax: (0191) 378 0494 e-mail: admin@arc-environmental.com web: www.arc-environmental.com The contractor shall check all dimensions on site before commencement of any works. No dimensions to be scaled off this drawing. © Copyright Reserved SITE INFORMATION: • THE SITE FORMS PART OF THE GARDENS TO THE CLOSE
 (RESIDENTIAL PROPERTY), LOCATED TO THE WEST OF WHITBURN CRICKET GROUND ON THE SOUTHERN OUTSKIRTS OF WHITBURN THE SITE IS IRREGULAR IN SHAPE THE REDEVELOPMENT WORKS WILL INVOLVE THE CONSTRUCTION OF A RESIDENTIAL PROPERTY WITH PRIVATE GARDENS, AREAS OF HARDSTANDING AND ACCESS ROAD FROM ORDNANCE SURVEY PLANS THE GENERAL TOPOGRAPHY SHOWS A SLIGHT FALL TO THE SOUTH/SOUTHEAST, ALTHOUGH THE SITE IS GENERALLY LEVEL THE SITE SURFACING GENERALLY COMPRISES OF GRASS AND ROUGH HEAVILY OVERGROWN VEGETATION WITH DENSE MATURE TREES A TARMAC ACCESS TRACK AND SMALL AREA OF CONCRETE IS NOTED ON THE SOUTHERN PORTION OF THE SITE RELIC WALLS AND PILLARS ARE RECORDED ON THE CENTRAL PORTION OF THE SITE.SERVICES MAY BE PRESENT BELOW THE SITE, I.E. ELECTRICITY, DRAINAGE, ETC ASSOCIATED WITH THE ADJACENT BUILDINGS TO THE WEST OF THE SITE. IN ADDITION, RELIC FOUNDATIONS MAY BE PRESENT ASSOCIATED WITH BUILDINGS PREVIOUSLY RECORDED ON THE SOUTHERN PORTION OF THE SITE THE NORTHERN PORTION OF THE SITE APPEARS TO FORM PART OF THE GARDENS TO THE ADJACENT RECTORY (LATER THE CLOSE) FROM AROUND C.1896
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MR & MRS THOMPSON
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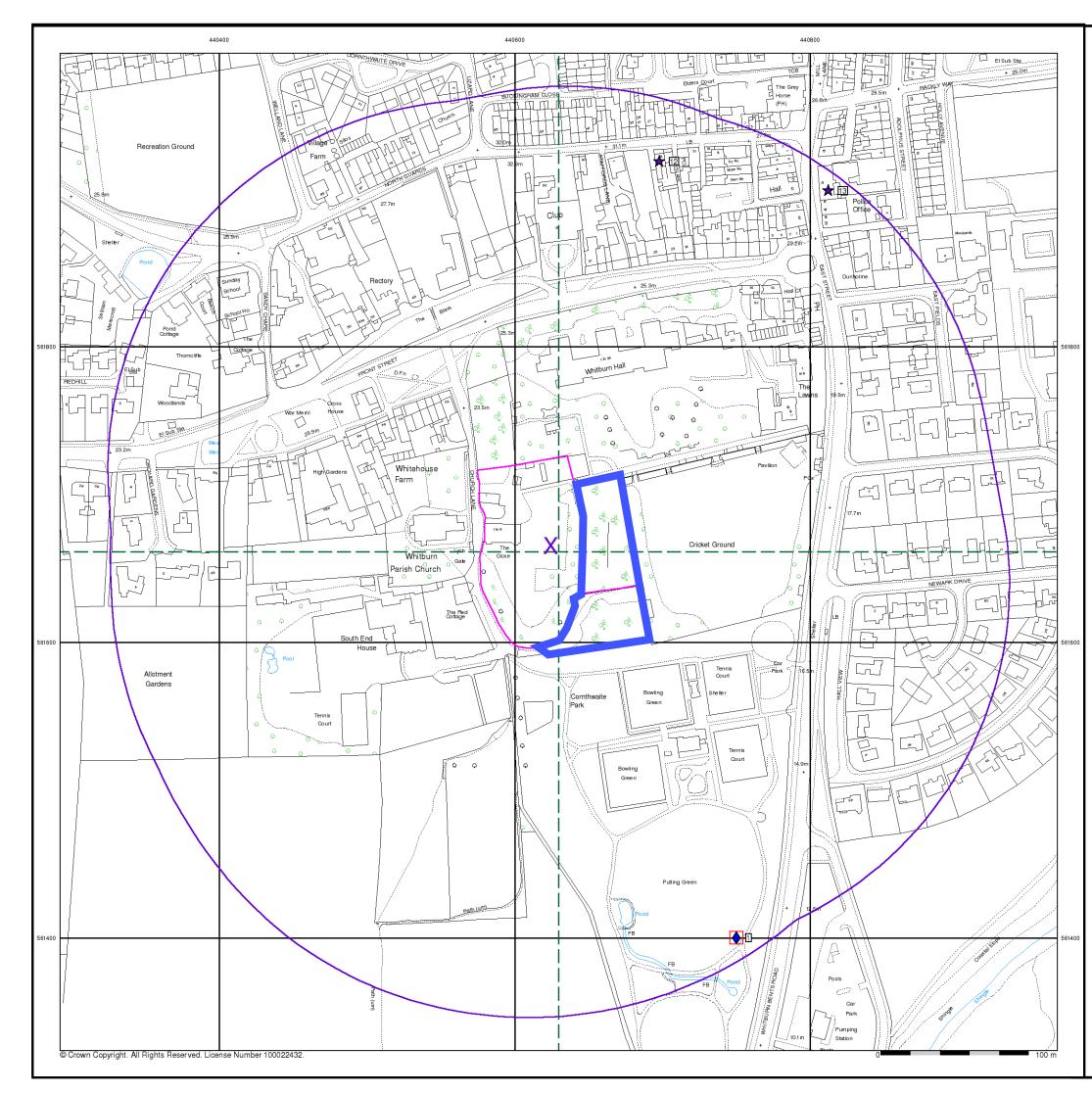


Scale at A3:	Date:	Drawn by:	Approved by:
NTS @ A3	15.01.14	P.D	T.M
Job Ref:		Drg no:	Rev:
17 000			
- IJ-806		_	_



APPENDIX II

Landmark Envirocheck Report





General



Industrial Land Use

- ★ Contemporary Trade Directory Entry
- 📩 Fuel Station Entry

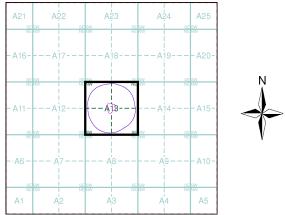
👆 Overhead Transmission Line

Waste

BGS Recorded Landfill Site (Location)
💋 BGS Recorded Landfill Site
EA Historic Landfill (Buffered Point)
EA Historic Landfill (Polygon)
A Integrated Pollution Control Registered Waste Site
Licensed Waste Management Facility (Landfill Boundary)
Eicensed Waste Management Facility (Location
Local Authority Recorded Landfill Site (Location
III Local Authority Recorded Landfill Site
🚫 Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
👚 Registered Waste Transfer Site (Location)
IIII Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site
Hazardous Substances
🛃 COMAH Site
🏹 Explosive Site

- 🙀 NIHHS Site
- 🗱 Planning Hazardous Substance Consent
- 🗱 Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A13



Order Details

Order Number:	26854816_1_1
Customer Ref:	13-806
National Grid Reference:	440620, 561670
Slice:	Α
Site Area (Ha):	1.01
Plot Buffer (m):	250

Site Details

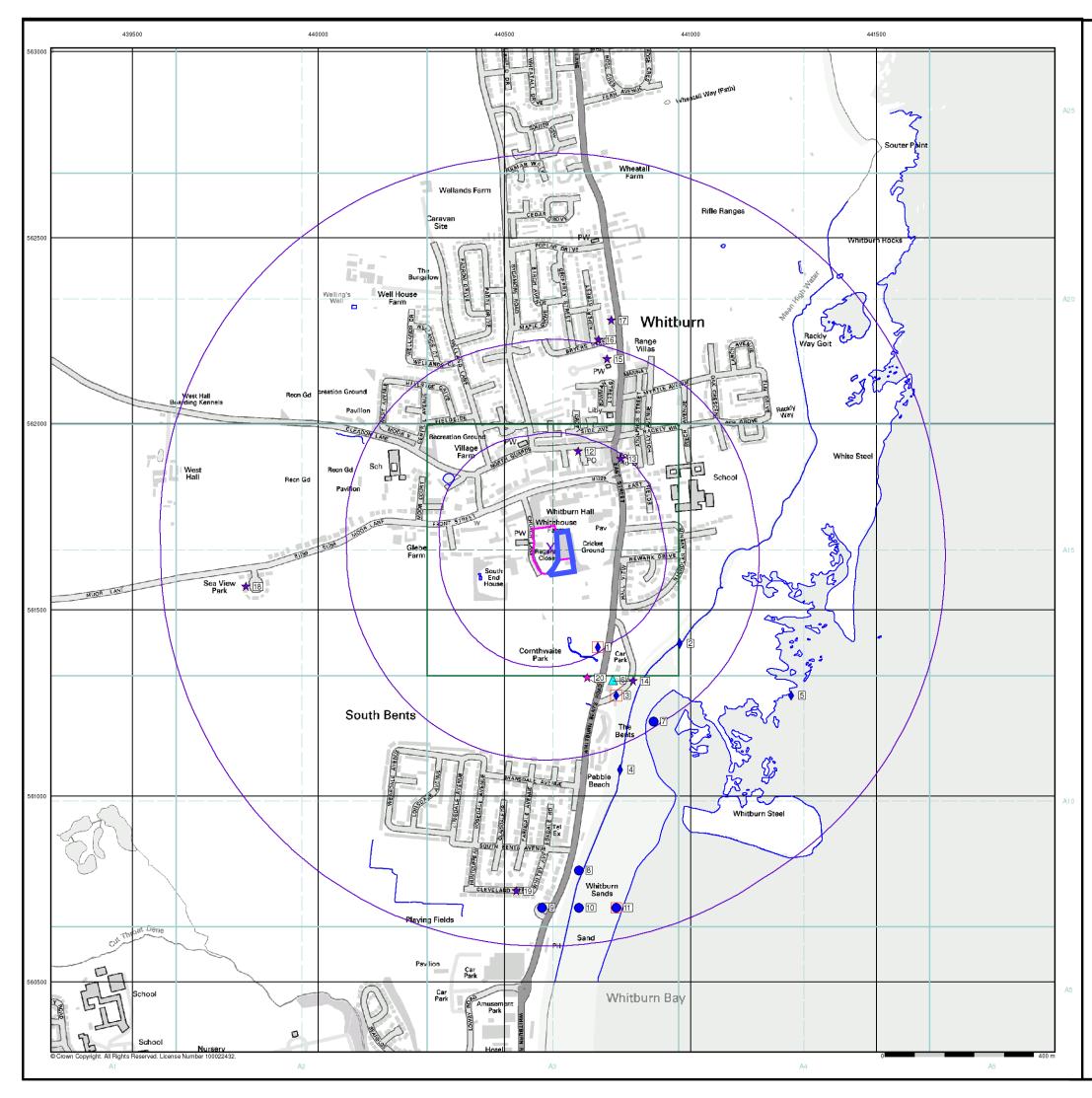
Church Lane, Whitburn, SUNDERLAND, Tyne & Wear, SR6 7JN



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Tel: Fax:

Web:



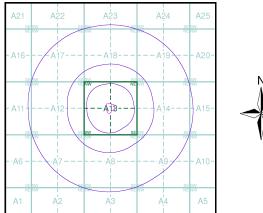


General				
🔼 Specified Site	Specified Buffer(s)	X Bearing Reference Point 8 Ma		
Several of Type at	Location			
Agency and	Hydrological	Waste		
Contaminated Land (Location)	d Register Entry or Notice	BGS Recorded Landfill Site (Location		
Contaminated Lan	d Register Entry or Notice	💋 BGS Recorded Landfill Site		
🔶 Discharge Consen	ıt	🔴 EA Historic Landfill (Buffered Point)		
A Enforcement or Pr	ohibition Notice	EA Historic Landfill (Polygon)		
A Integrated Pollution	n Control	A Integrated Pollution Control Register		
Integrated Pollution	Prevention Control	Licensed Waste Management Facili (Landfill Boundary)		
Local Authority Int and Control	egrated Pollution Prevention	Licensed Waste Management Facilit		
🛆 Local Authority Po	llution Prevention and Control	Local Authority Recorded Landfill S		
Control Enforceme	Ilution Prevention and ent	Local Authority Recorded Landfill S		
OPollution Incident to	o Controlled Waters	🚫 Registered Landfill Site		
V Prosecution Relation	ng to Authorised Processes	Registered Landfill Site (Location)		
🔶 Prosecution Relati	ng to Controlled Waters	Registered Landfill Site (Point Buffere		
🔺 Registered Radioa	ctive Substance	Registered Landfill Site (Point Buffere		
🥄 River Network or V	Nater Feature	👚 Registered Waste Transfer Site (Lo		
🕂 River Quality Sam	oling Point	IIII Registered Waste Transfer Site		
合 Substantiated Pollu	ution Incident Register	Registered Waste Treatment or Disp (Location)		
🔷 Water Abstraction	1	Registered Waste Treatment or Dis		
🔶 Water Industry Ac	t Referral	Hazardous Substanc		
Geological		🛃 COMAH Site		
BGS Recorded Mir	neral Site	🙀 Explosive Site		
In december 1.	and Lloo			

Industrial Land Use

- ★ Contemporary Trade Directory Entry
- 🖈 Fuel Station Entry

Site Sensitivity Map - SliceA



Order Details

Order Number:	26854816_1_1
Customer Ref:	13-806
National Grid Reference:	440620, 561670
Slice:	Α
Site Area (Ha):	1.01
Search Buffer (m):	1000

Site Details Church Lane, Whitburn, SUNDERLAND, Tyne & Wear, SR6 7JN



Map ID

•	BGS Recorded Landfill Site (Location)
Ø	BGS Recorded Landfill Site
\bigcirc	EA Historic Landfill (Buffered Point)
	EA Historic Landfill (Polygon)
\triangle	Integrated Pollution Control Registered Waste Site
823	Licensed Waste Management Facility (Landfill Boundary)
۲	Licensed Waste Management Facility (Location)
	Local Authority Recorded Landfill Site (Location)
Ш	Local Authority Recorded Landfill Site
	Registered Landfill Site
►	Registered Landfill Site (Location)
	Registered Landfill Site (Point Buffered to 100m)
	Registered Landfill Site (Point Buffered to 250m)
٢	Registered Waste Transfer Site (Location)
	Registered Waste Transfer Site
\bigcirc	Registered Waste Treatment or Disposal Site (Location)
	Registered Waste Treatment or Disposal Site
Ha	azardous Substances
1	COMAH Site
1	Explosive Site
1	NIHHS Site
*	Planning Hazardous Substance Consent
*	Planning Hazardous Substance Enforcement

A Landmark Information Group Service v33.1 27-Nov-2008 Page 1 of 3

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Tel: Fax: Web:





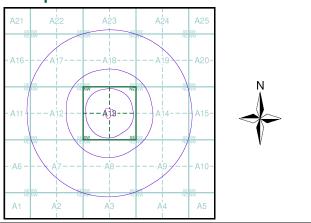
General

- C Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- 🚫 Area Benefiting from Flood Defence
- 💋 Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

 Order Number:
 26854816_1_1

 Customer Ref:
 13-806

 National Grid Reference:
 440620, 561670
 Slice: Α Site Area (Ha): Search Buffer (m): 1.01 1000

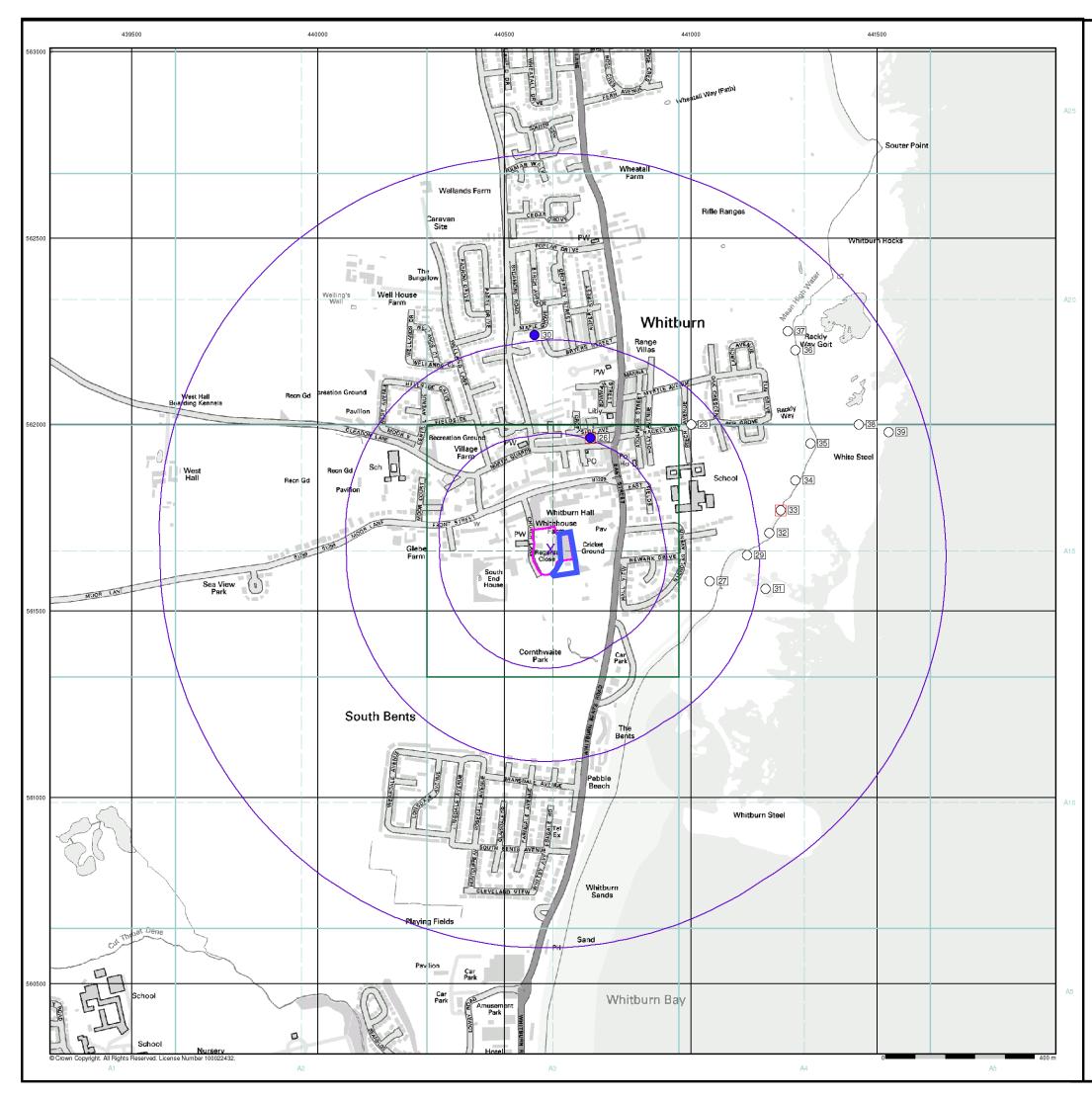
Site Details Church Lane, Whitburn, SUNDERLAND, Tyne & Wear, SR6 7JN





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General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological (Boreholes)

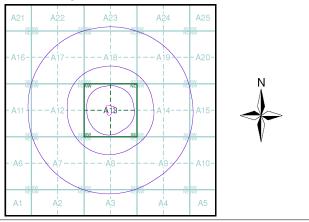
BGS Borehole Depth 0 - 10m

- 😑 BGS Borehole Depth 10 30m
- BGS Borehole Depth 30m +
- Confidential
- O Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - SliceA



Order Details

Order Number:	26854816_1_1
Customer Ref:	13-806
National Grid Reference:	440620, 561670
Slice:	Α
Site Area (Ha):	1.01
Search Buffer (m):	1000

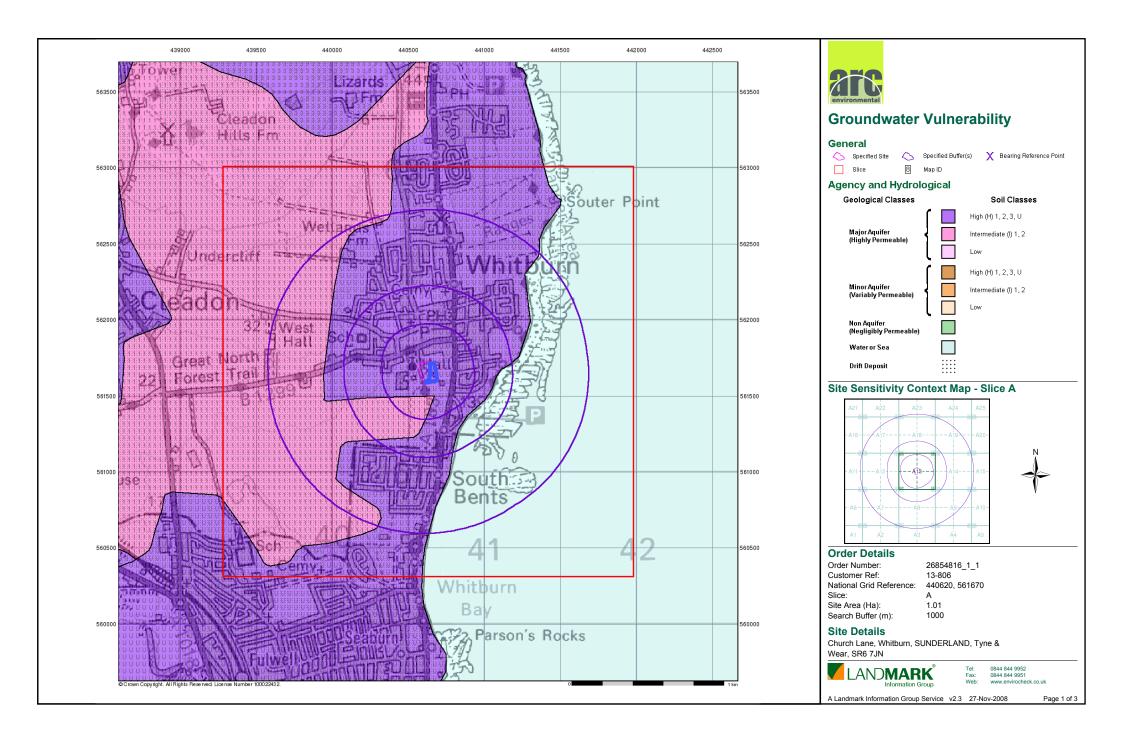
Site Details

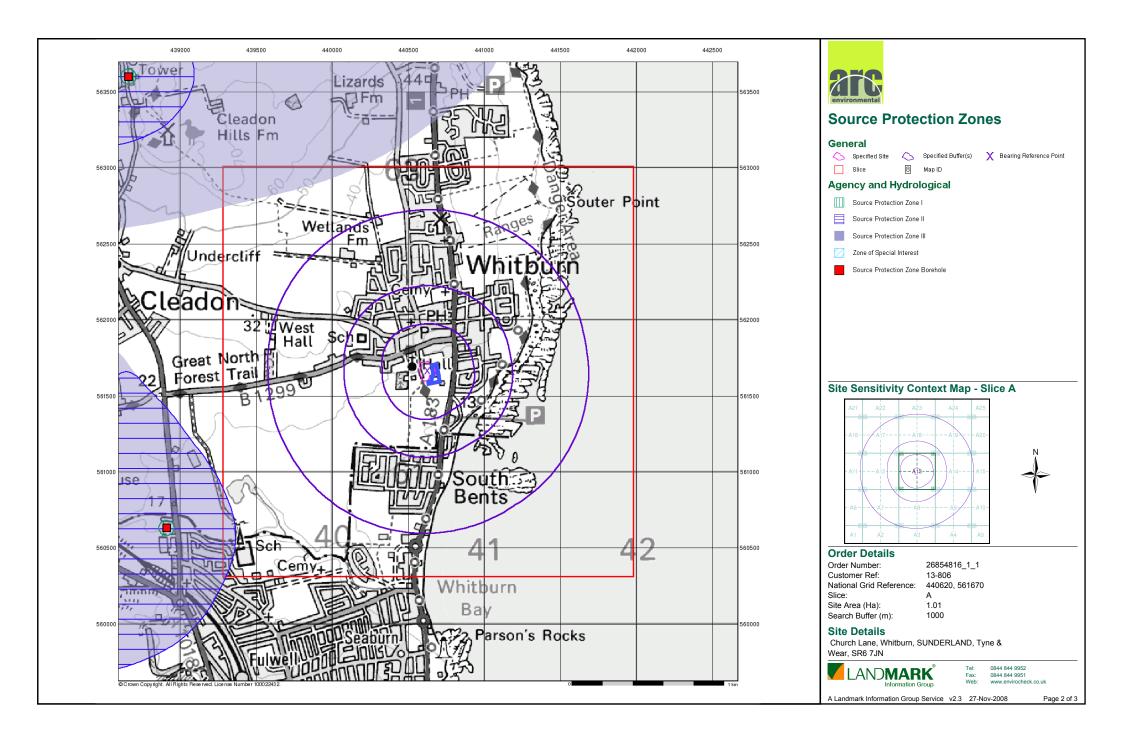
Church Lane, Whitburn, SUNDERLAND, Tyne & Wear, SR6 7JN

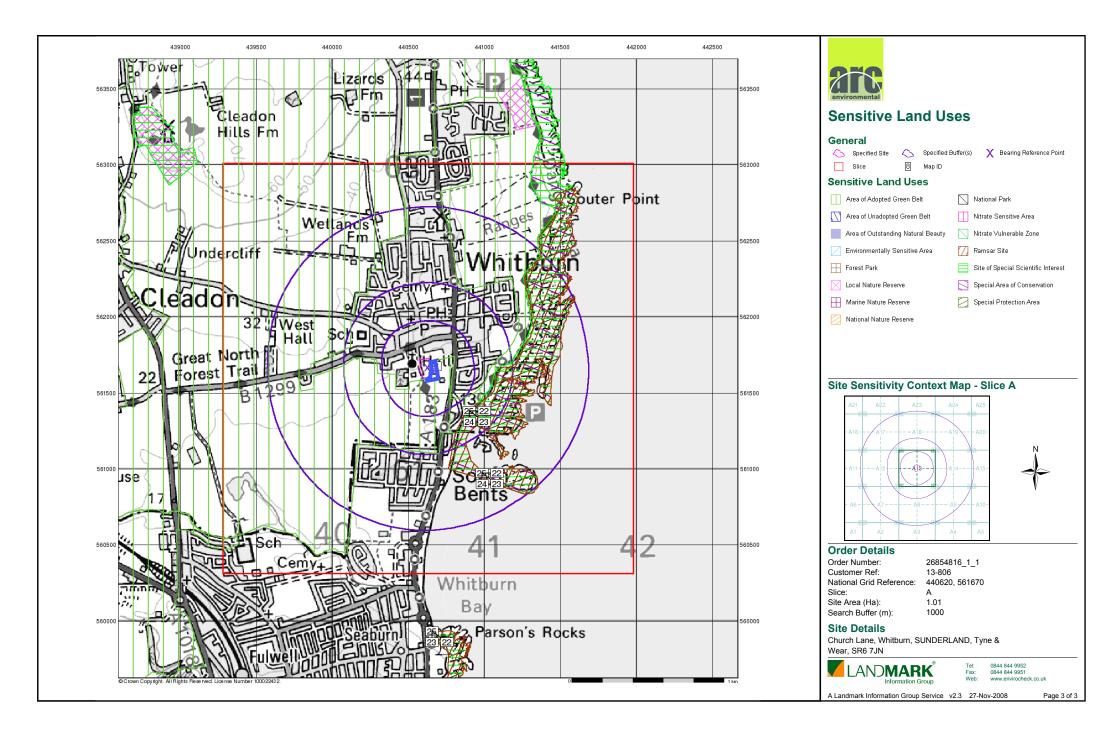


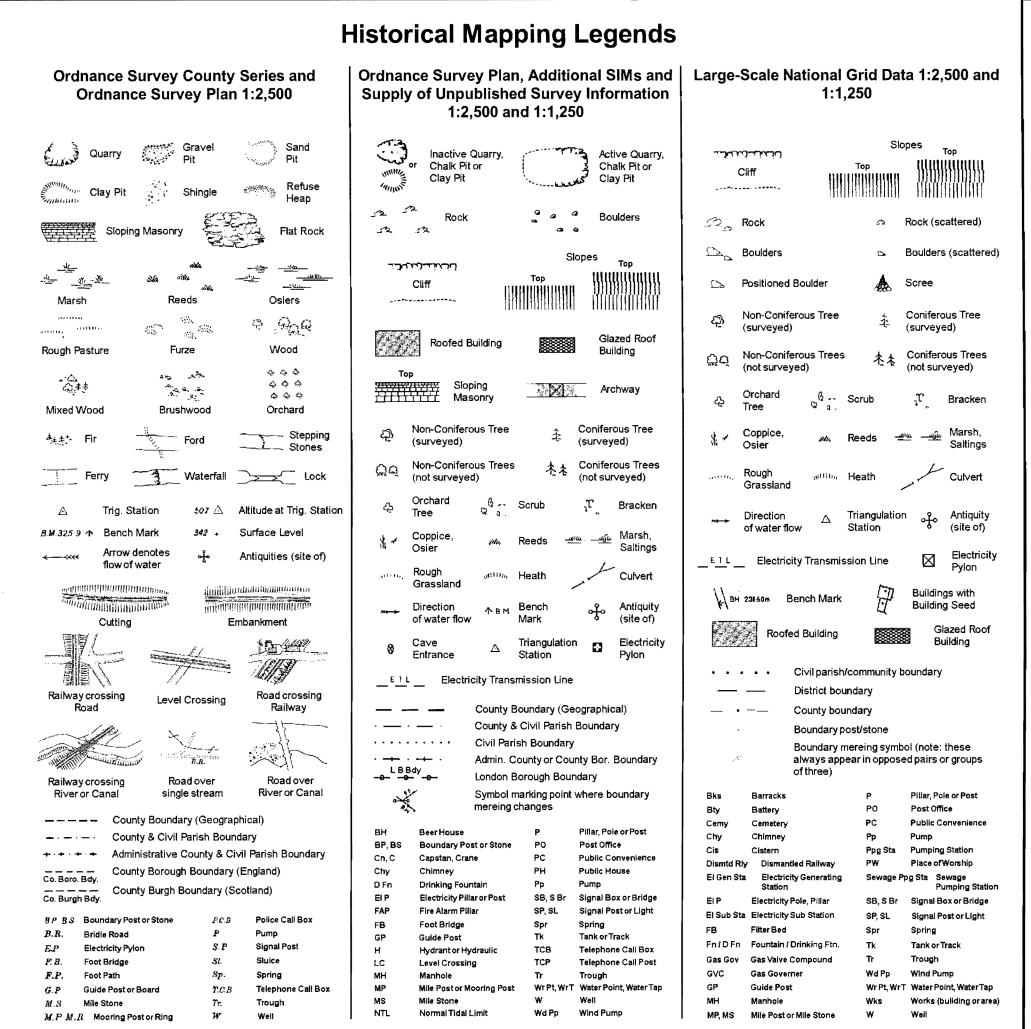


Tel: Fax: Web:









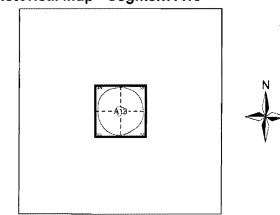
A Landmark Information Group Service v33.1 27-Nov-2008 Page 1 of 11



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Durham	1:2,500	1873 - 1895	2
Durham	1:2,500	1896	3
Durham	1:2,500	1919	4
Durham	1:2,500	1939 - 1942	5
Ordnance Survey Plan	1:2,500	1959	6
Ordnance Survey Plan	1:2,500	1968	7
Additional SIMs	1:2,500	1982	8
Additional SIMs	1:2,500	1989	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1994	11

Historical Map - Segment A13



Order Details

 Order Number:
 26854816_1_1

 Customer Ref:
 13-806

 National Grid Reference:
 440620, 561670

 Slice:
 A

 Site Area (Ha):
 1.01

 Search Buffer (m):
 250

Site Details

Church Lane, Whitburn, SUNDERLAND, Tyne & Wear, SR6 7JN

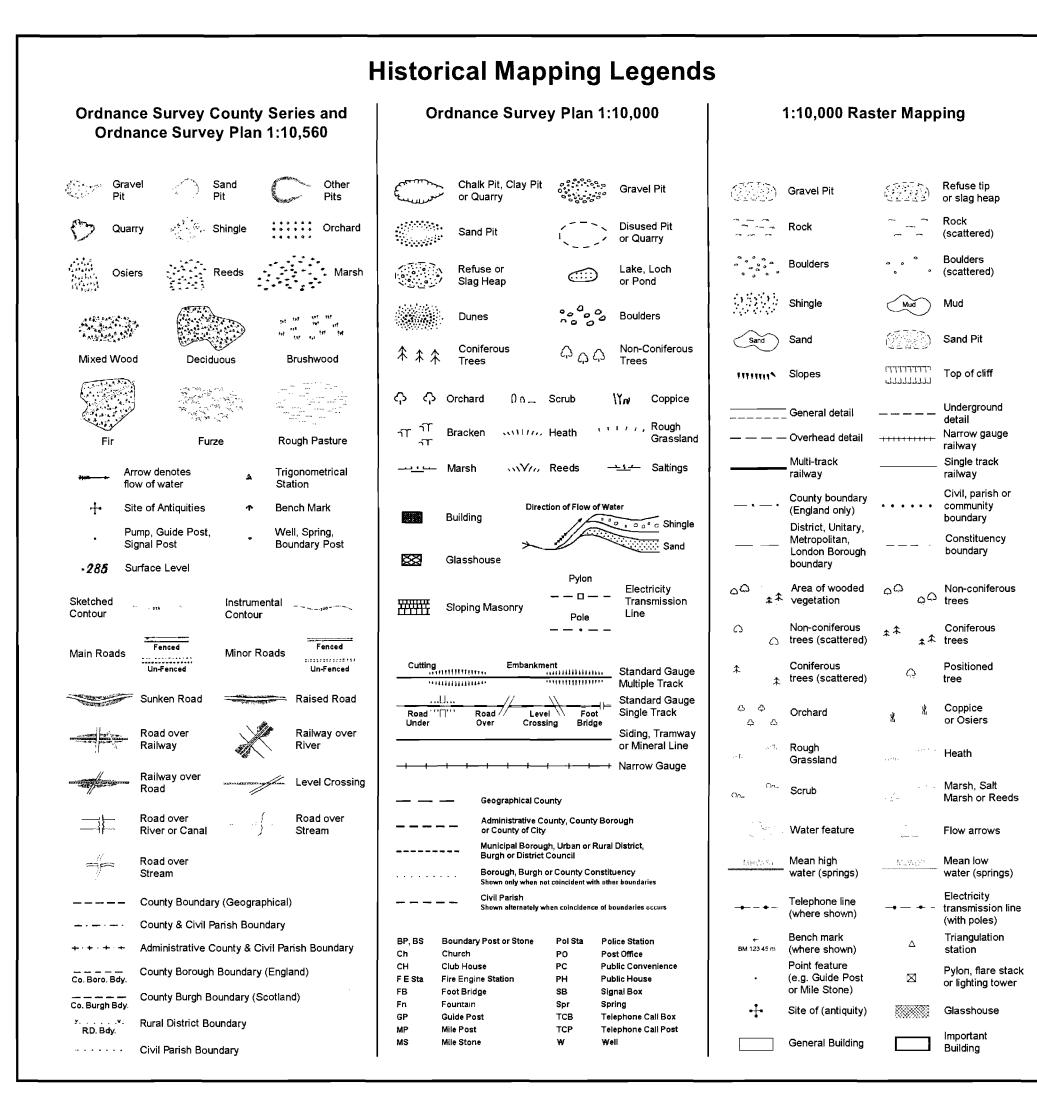


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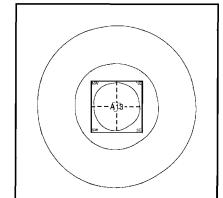




Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Durham	1:10,560	1862	3
Durham	1:10,560	1898 - 1899	4
Durham	1:10,560	1921	5
Durham	1:10,560	1938	6
Ordnance Survey Plan	1:10,560	1951	7
Ordnance Survey Plan	1:10,560	1968 - 1969	8
Sunderland	1:10,000	1976	9
Ordnance Survey Plan	1:10,000	1977	10
Newcastle-upon-Tyne	1:25,000	1977	11
Ordnance Survey Plan	1:10,000	1984 - 1987	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2008	14

Historical Map - Slice A





Order Details

der Number:	26854816_1_1
istomer Ref:	13-806
ational Grid Reference:	440620, 561670
ce:	Α
e Area (Ha):	1.01
arch Buffer (m):	1000

Site Details

Church Lane, Whitburn, SUNDERLAND, Tyne & Wear, SR6 7JN



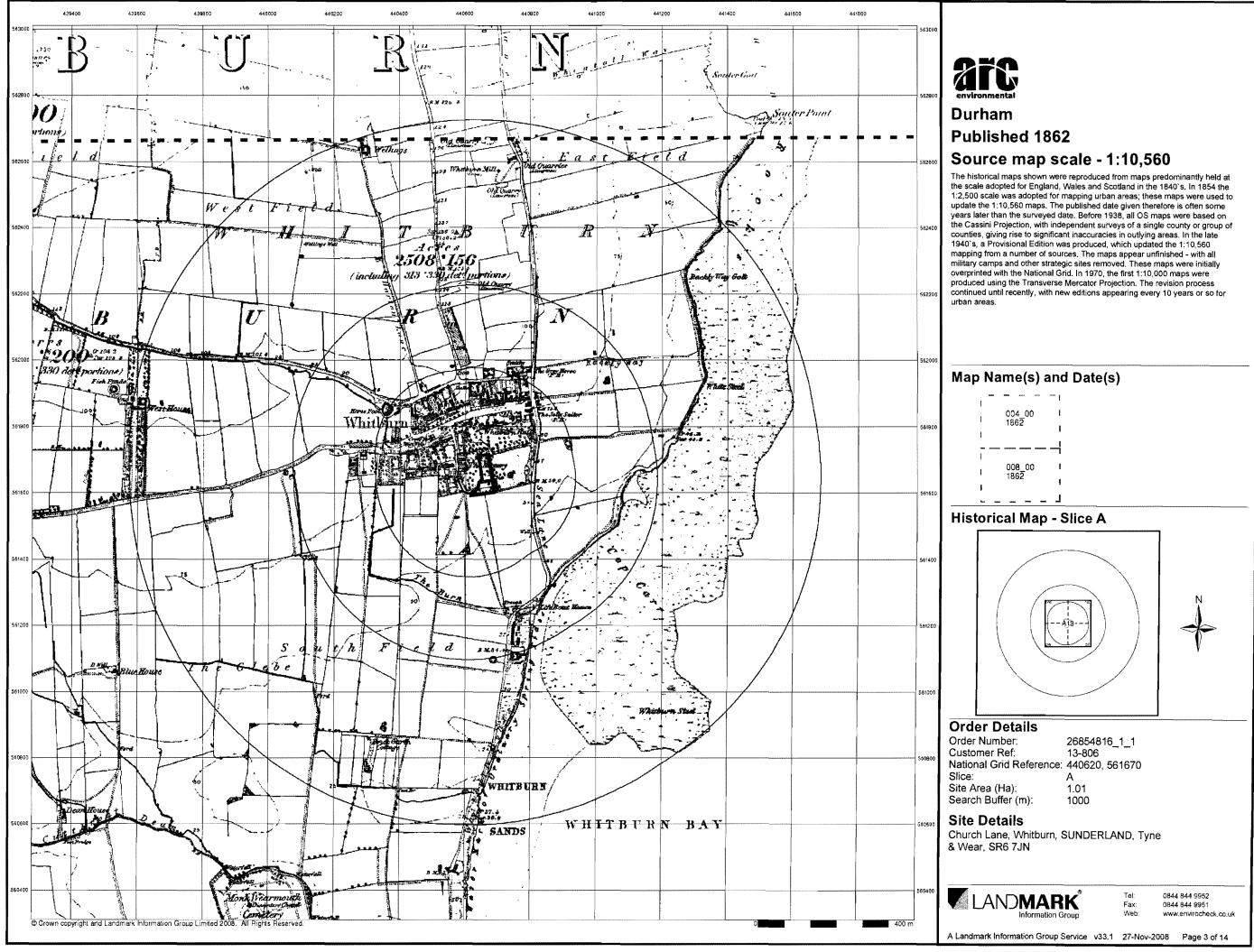
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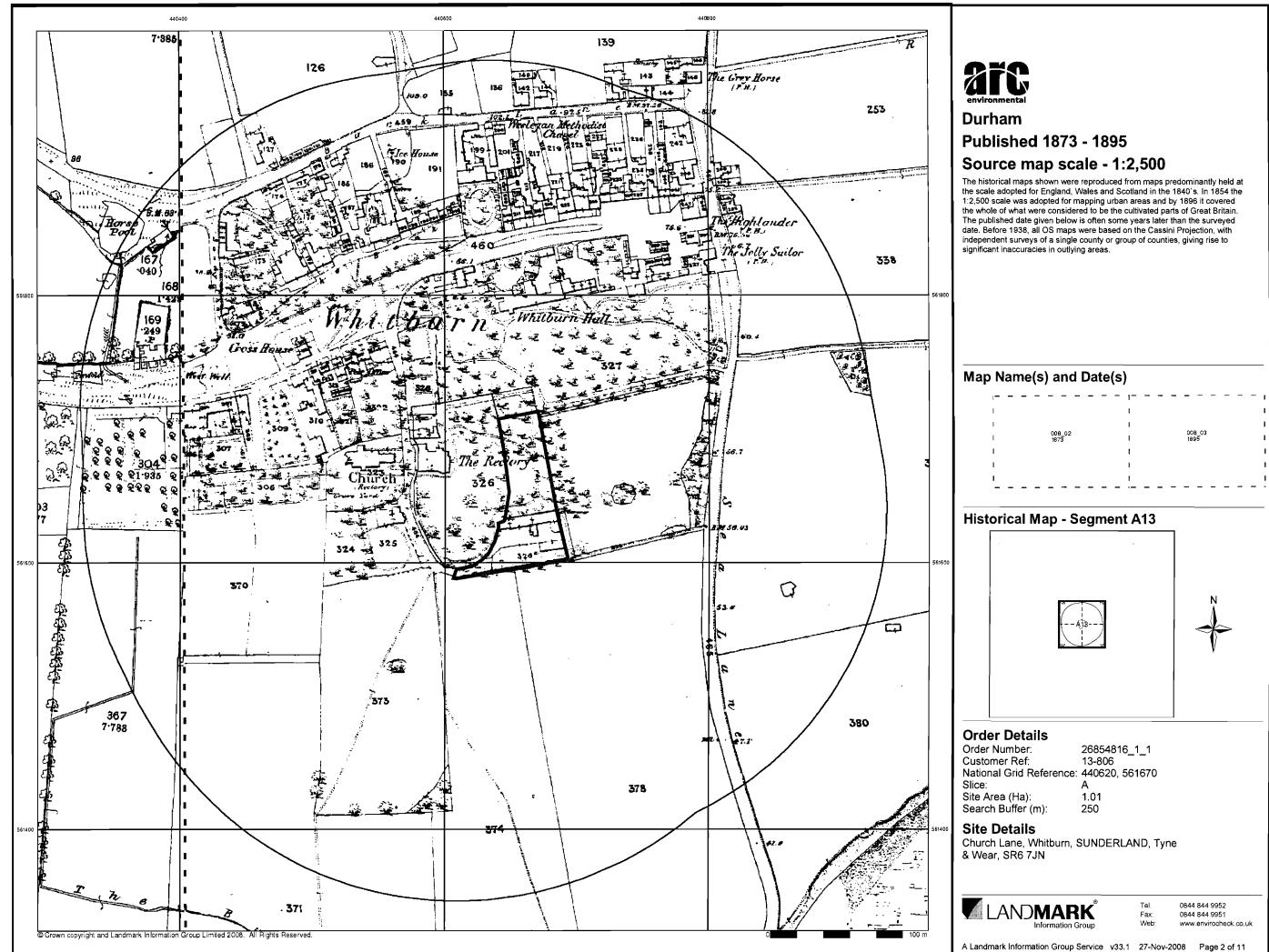
A Landmark Information Group Service v33.1 27-Nov-2008 Page 1 of 14

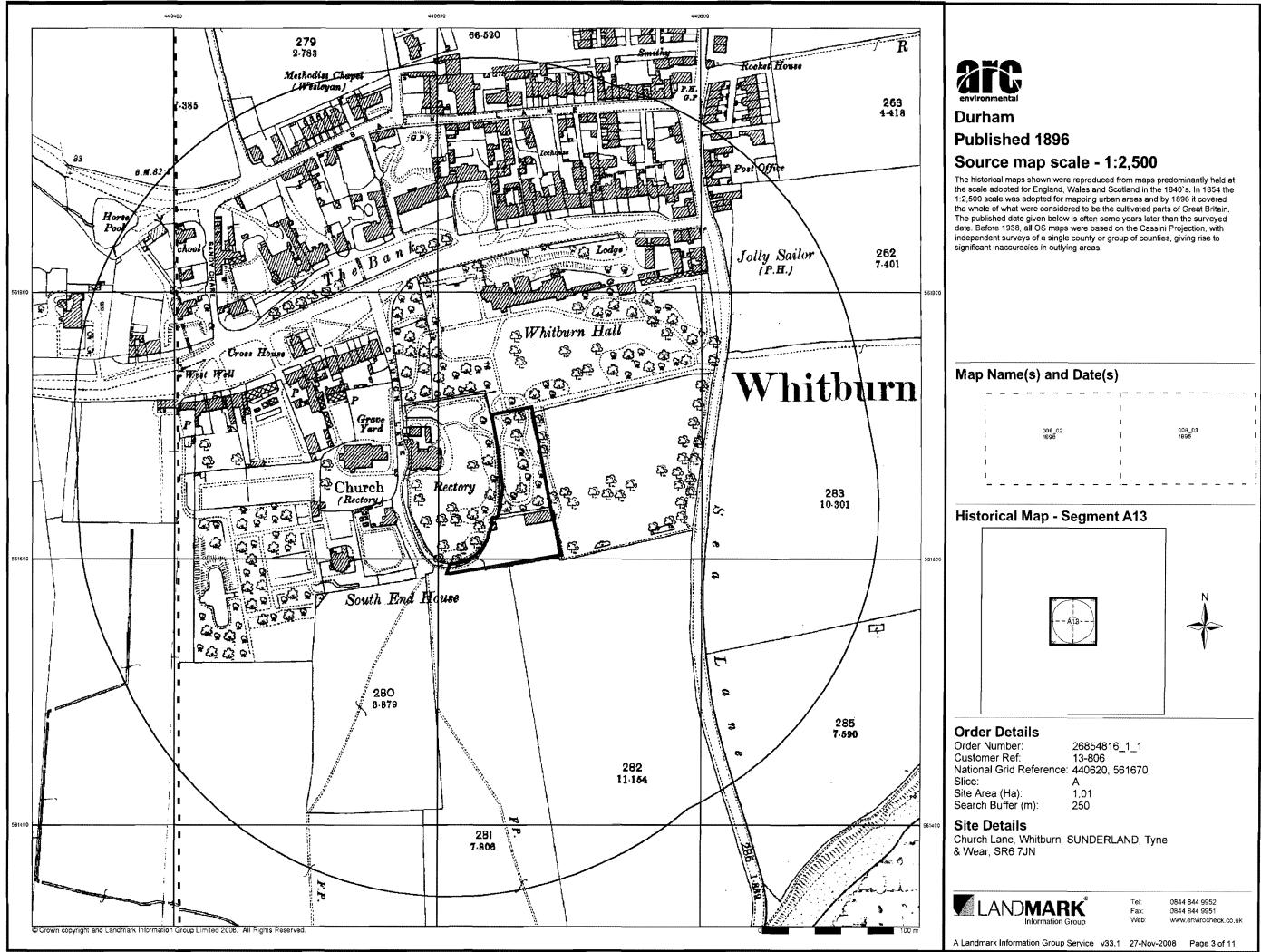
Tel:

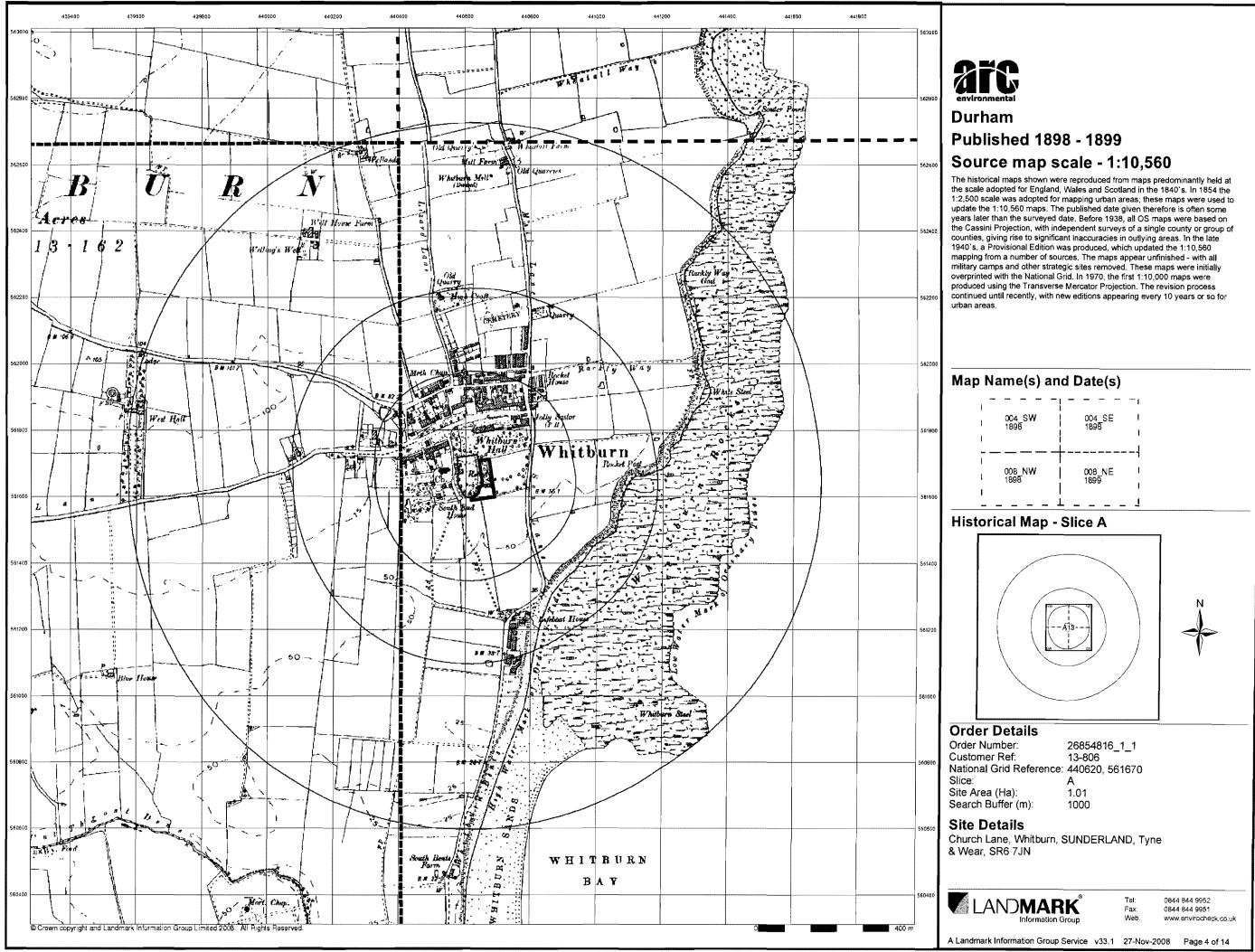
Fax:

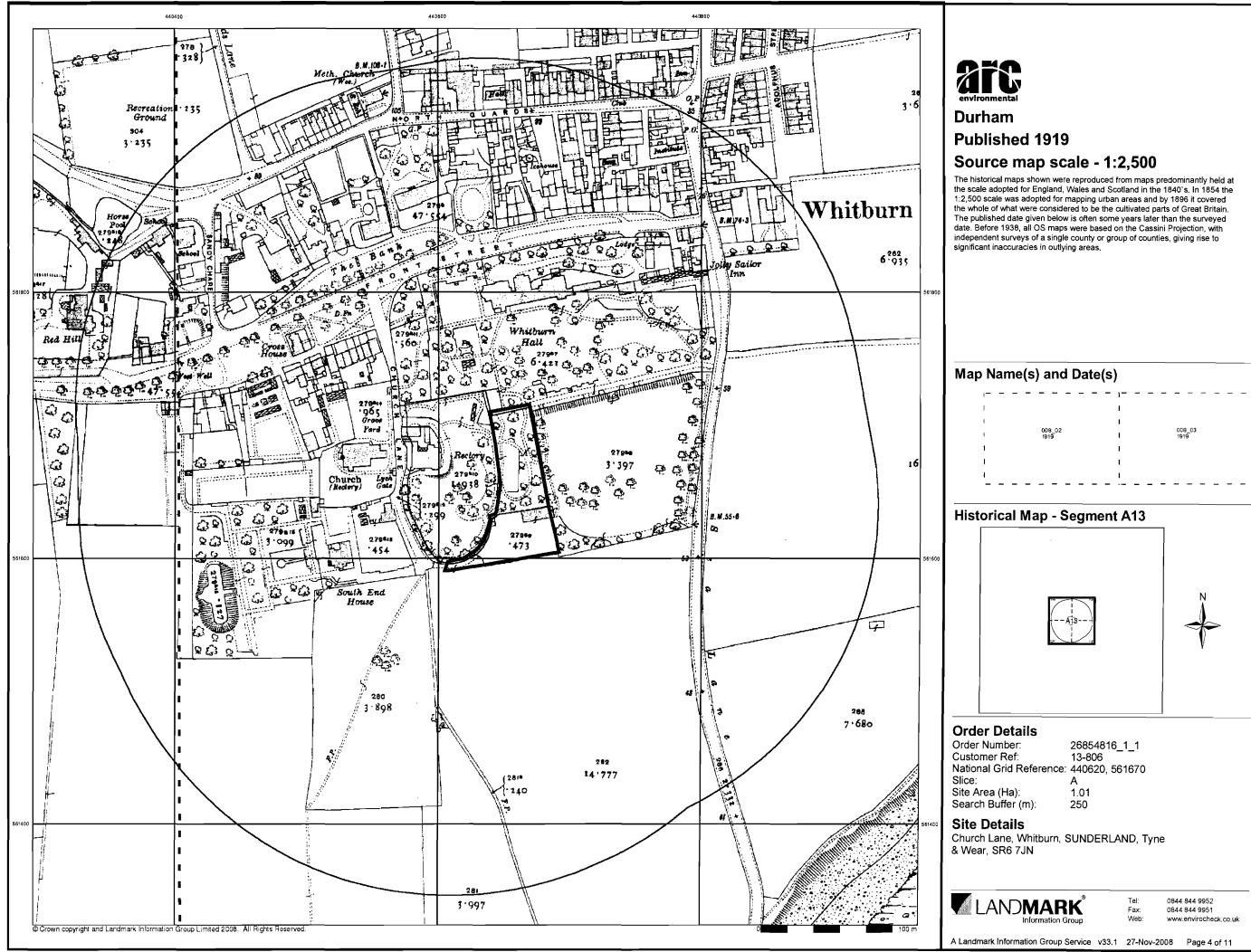
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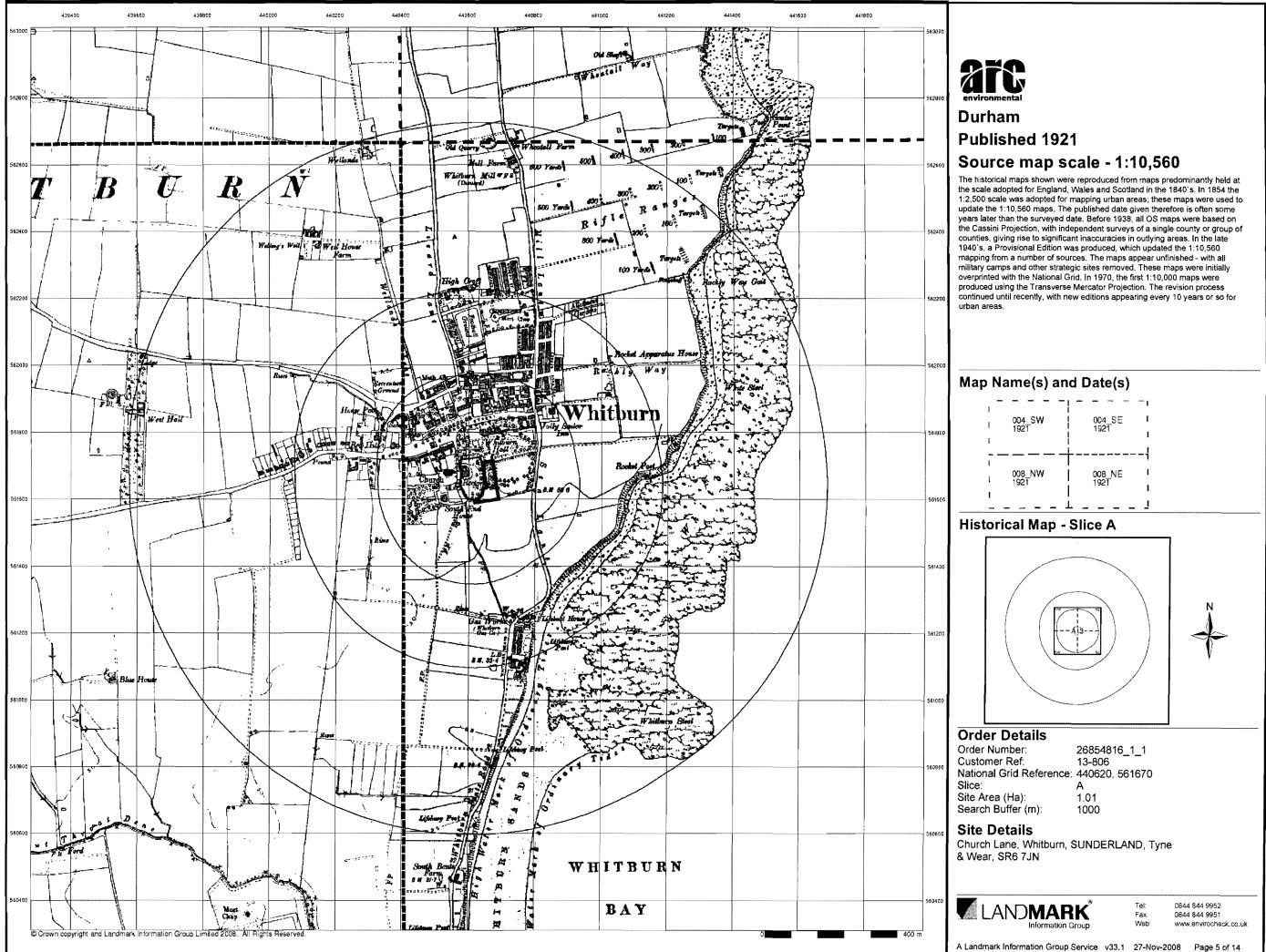


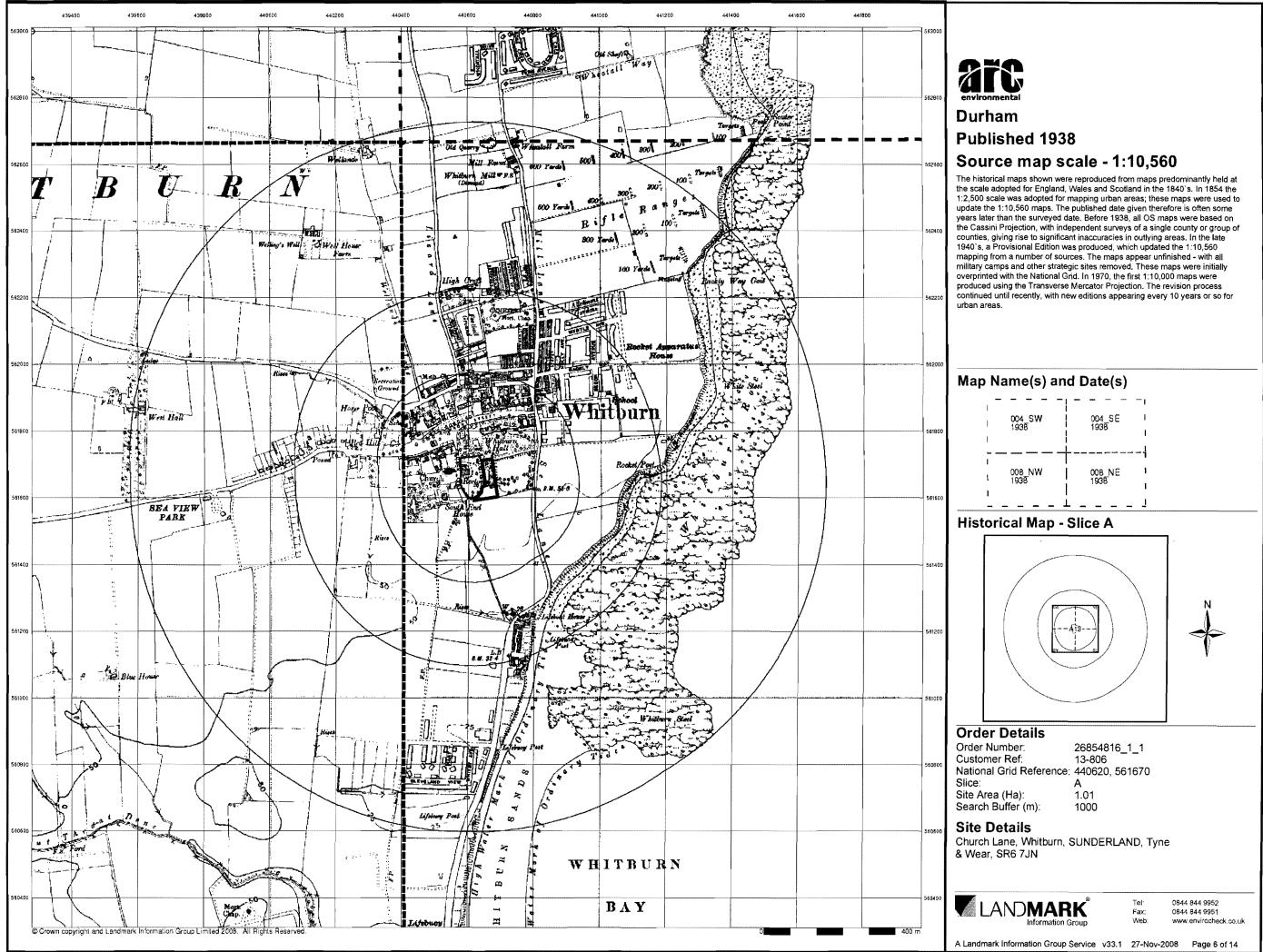


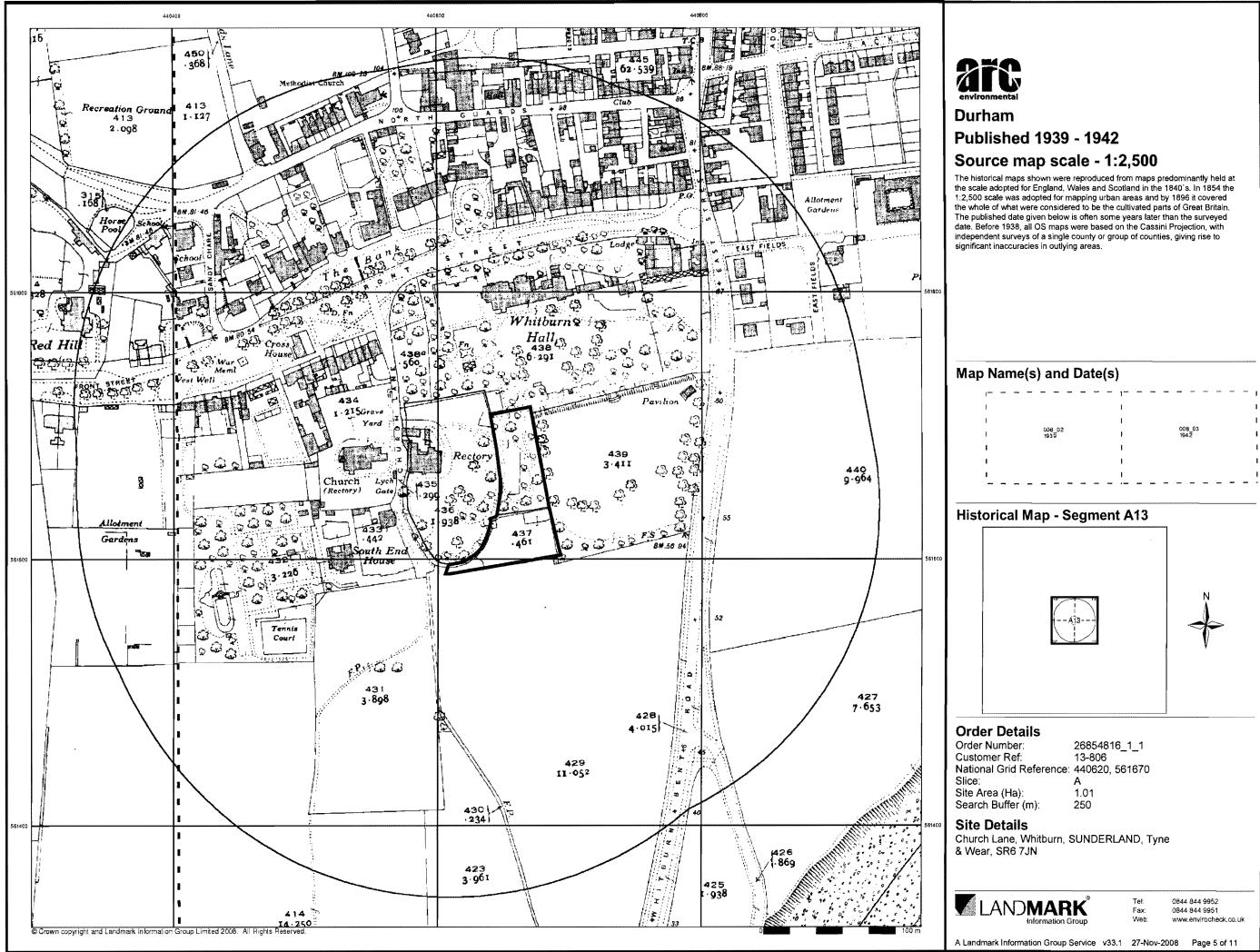


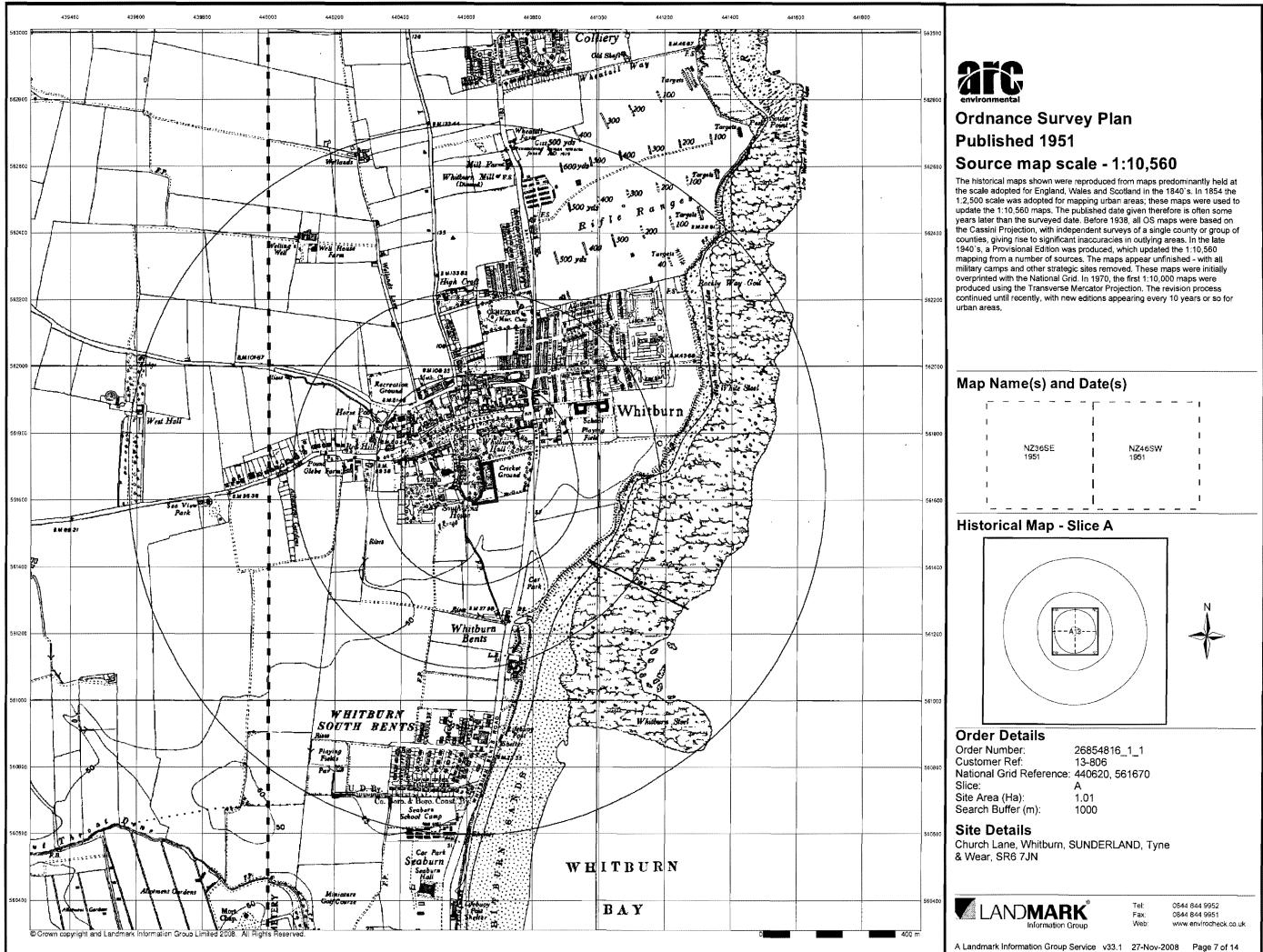
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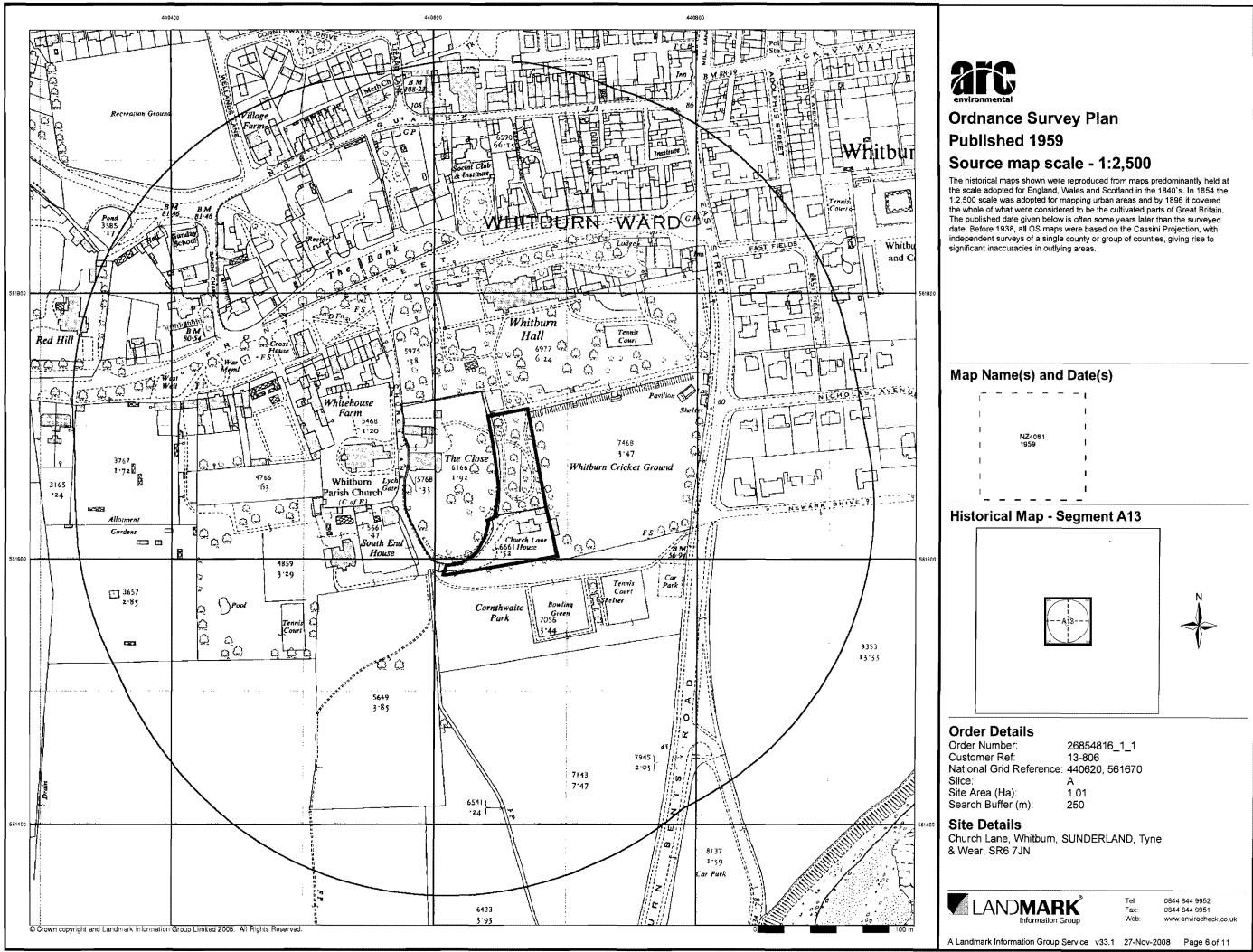
der Number:	26854816 1 1
stomer Ref:	13-806
tional Grid Reference:	440620, 561670
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e Area (Ha):	1.01
arch Buffer (m):	250

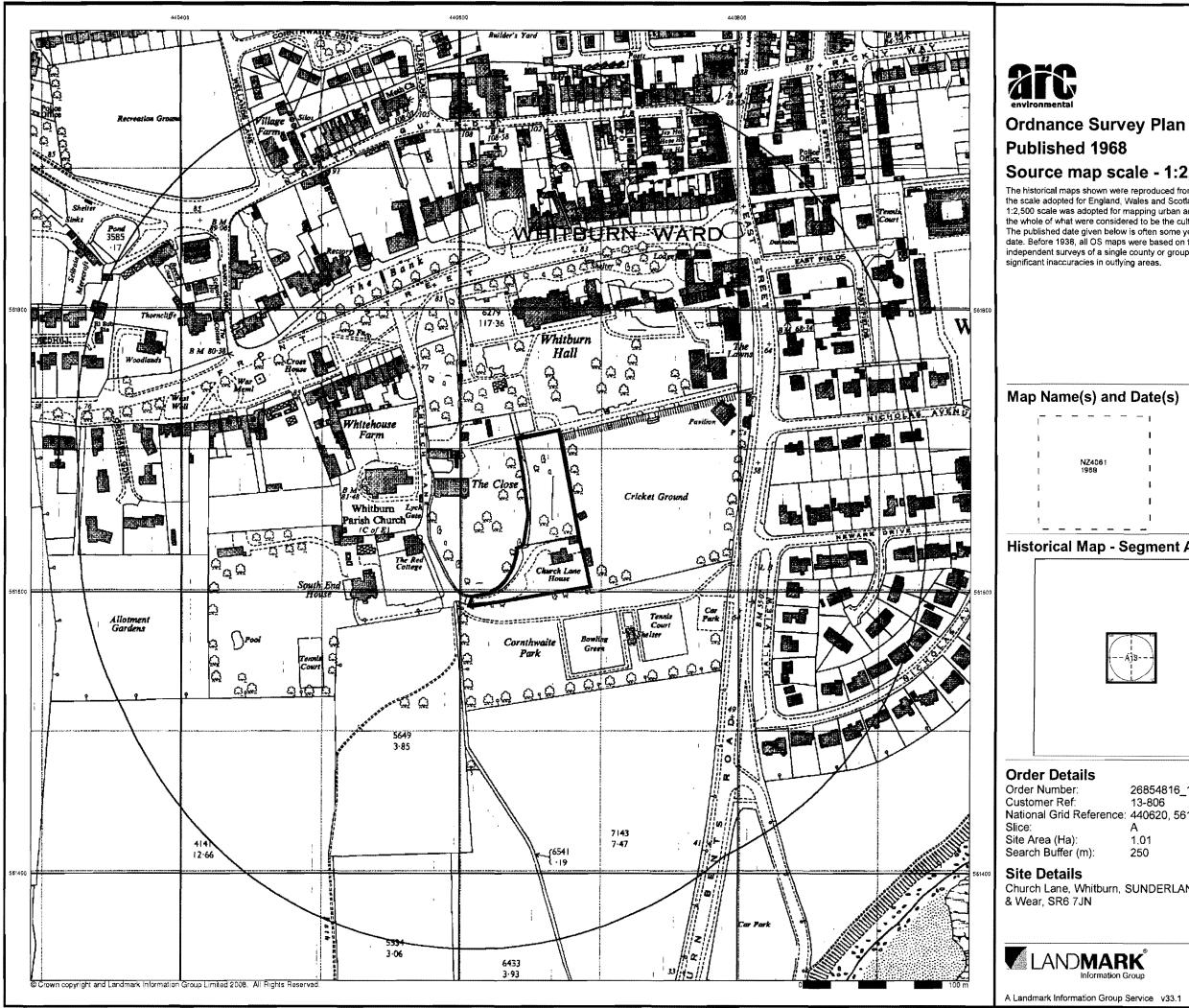












Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to

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Historical Map - Segment A13



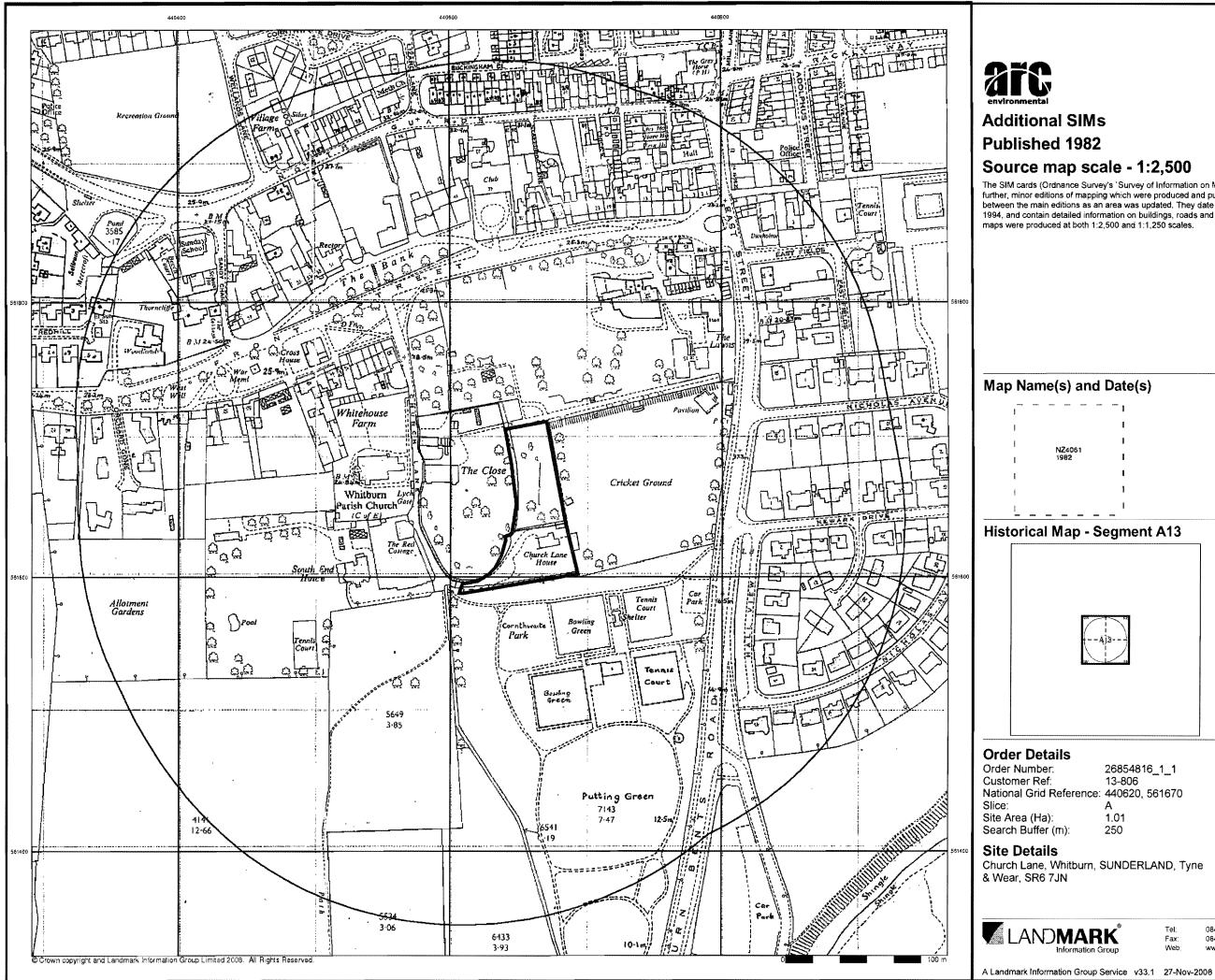
rder Number:	26854816_1_1
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ational Grid Reference:	440620, 561670
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te Area (Ha):	1.01
earch Buffer (m):	250

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A Landmark Information Group Service v33.1 27-Nov-2008 Page 7 of 11



The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These

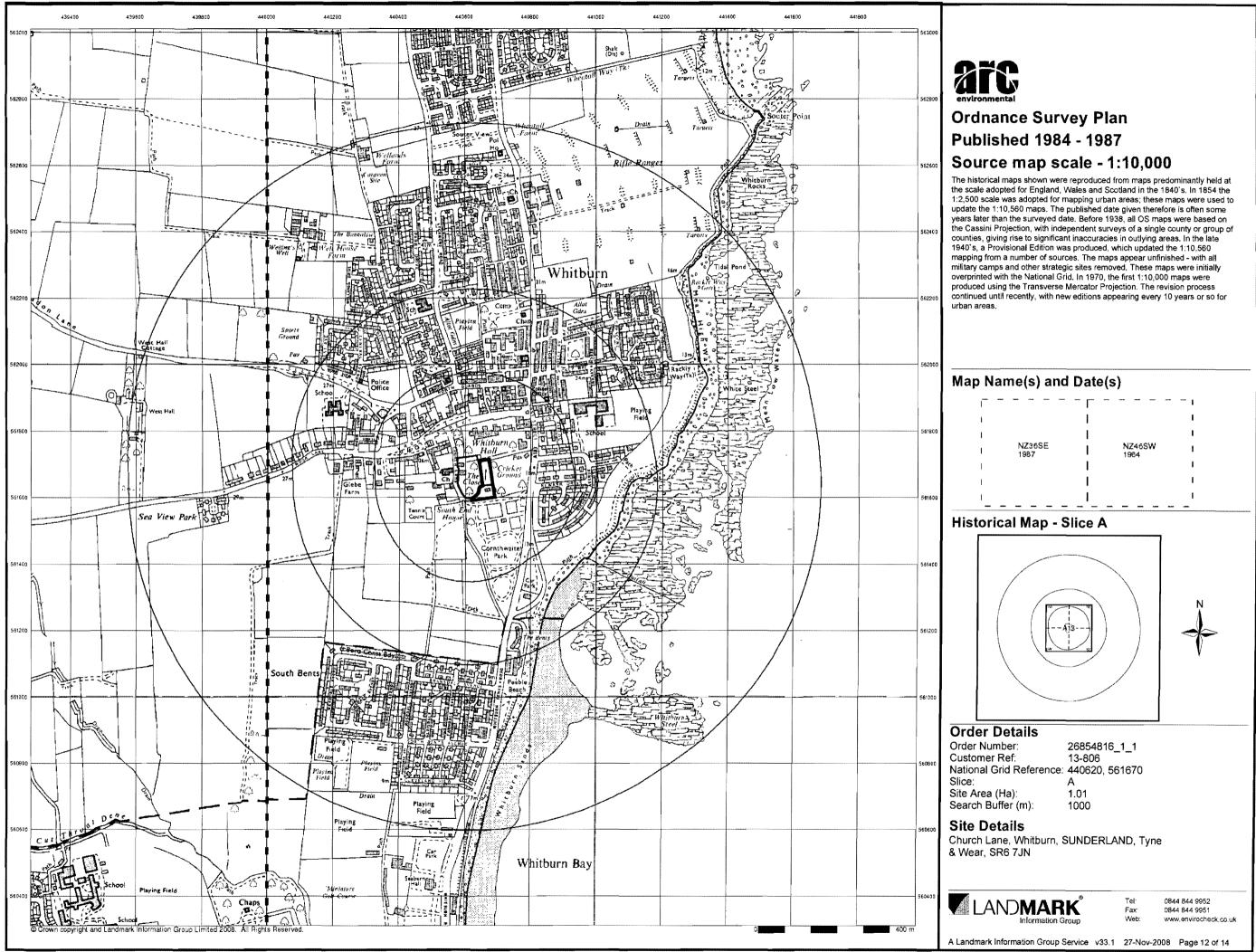
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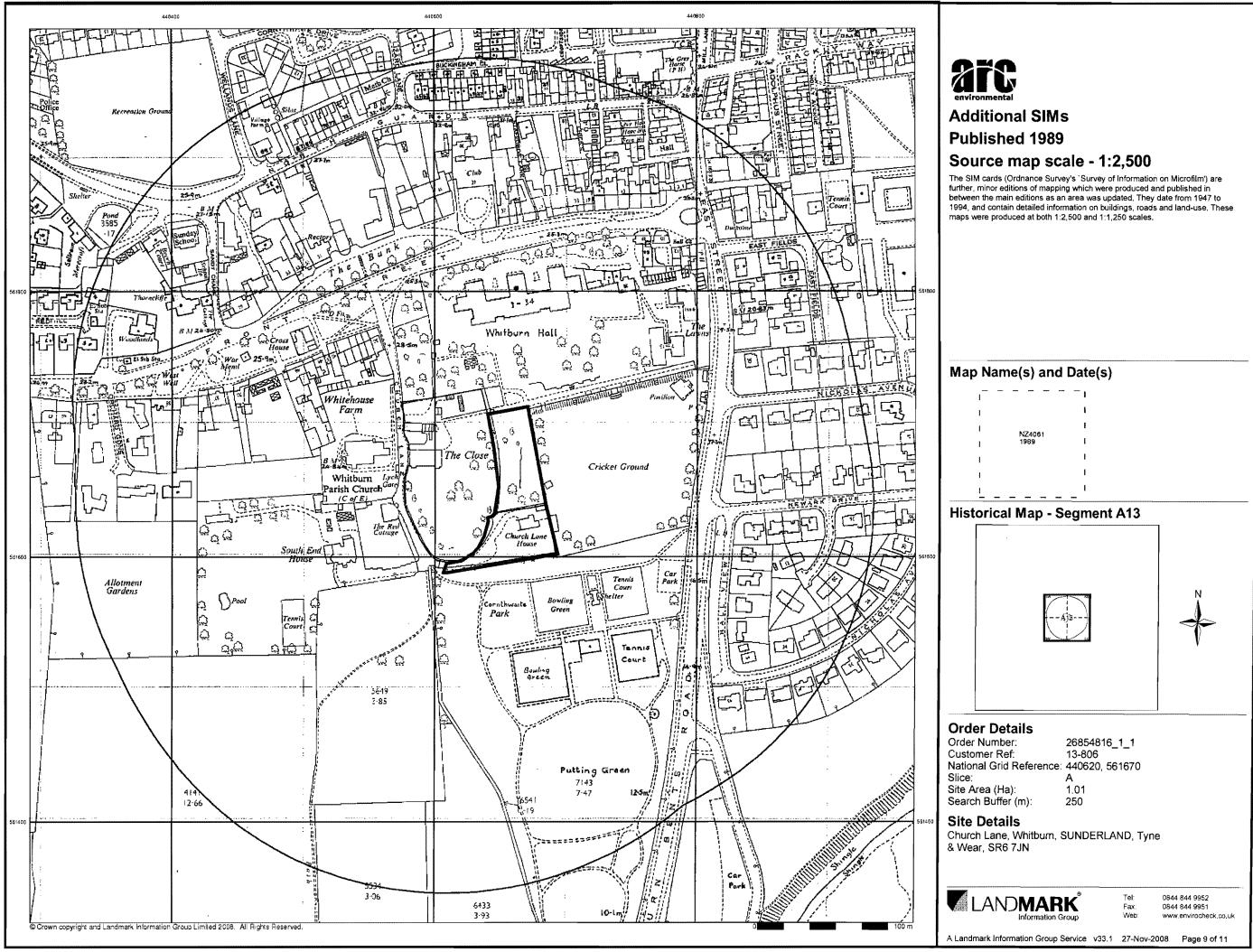
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earch Buffer (m):	250

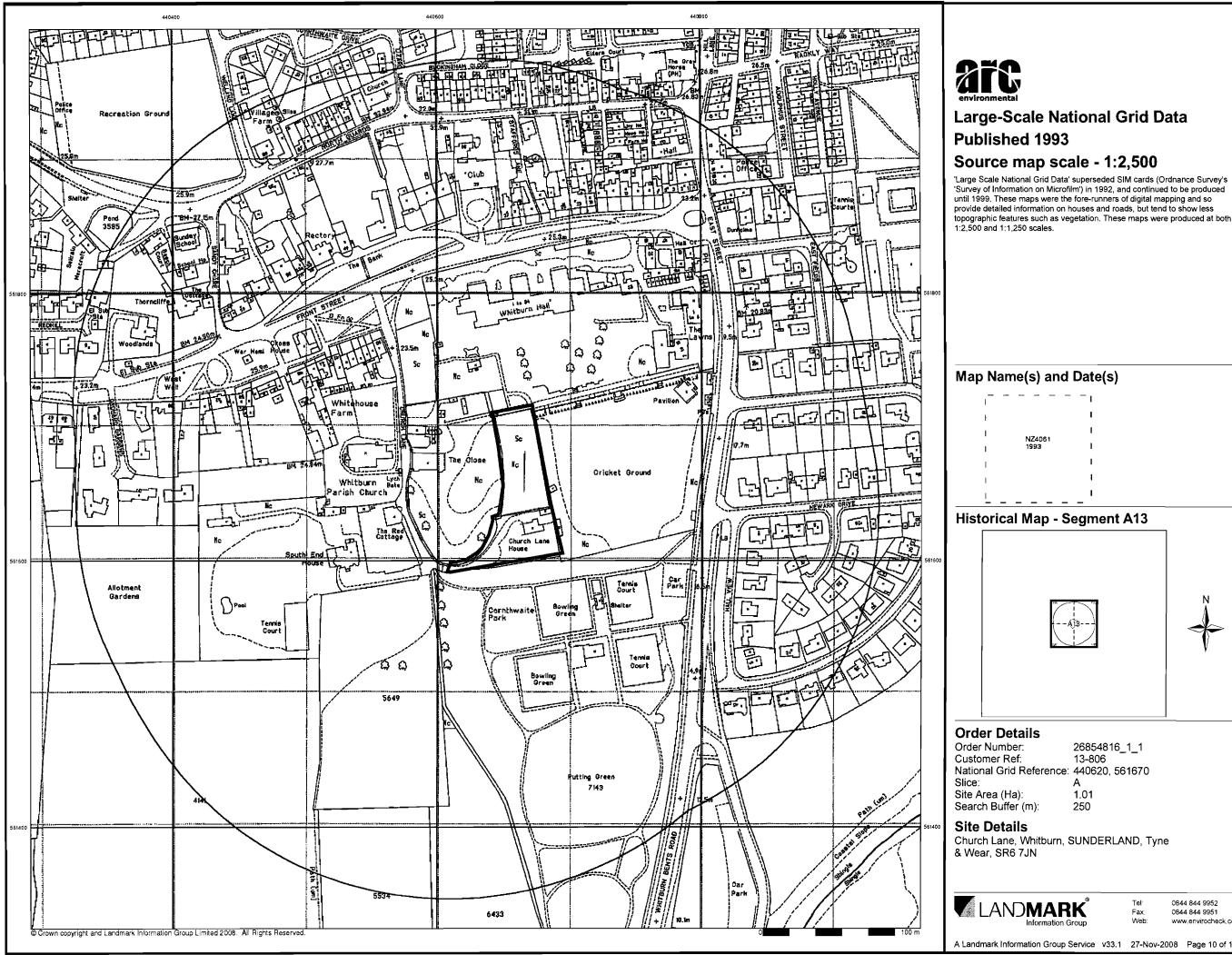
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A Landmark Information Group Service v33.1 27-Nov-2008 Page 8 of 11







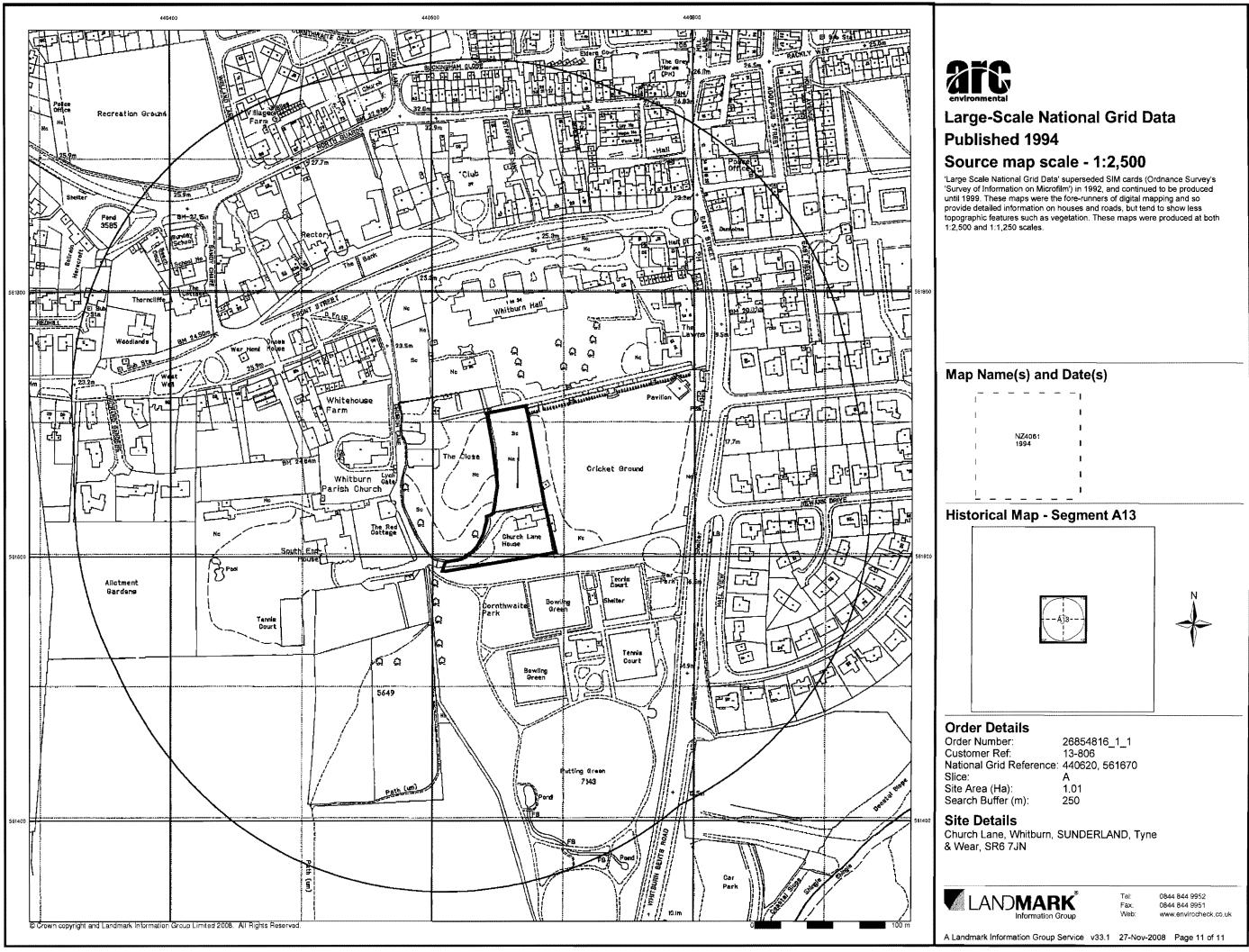
until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both

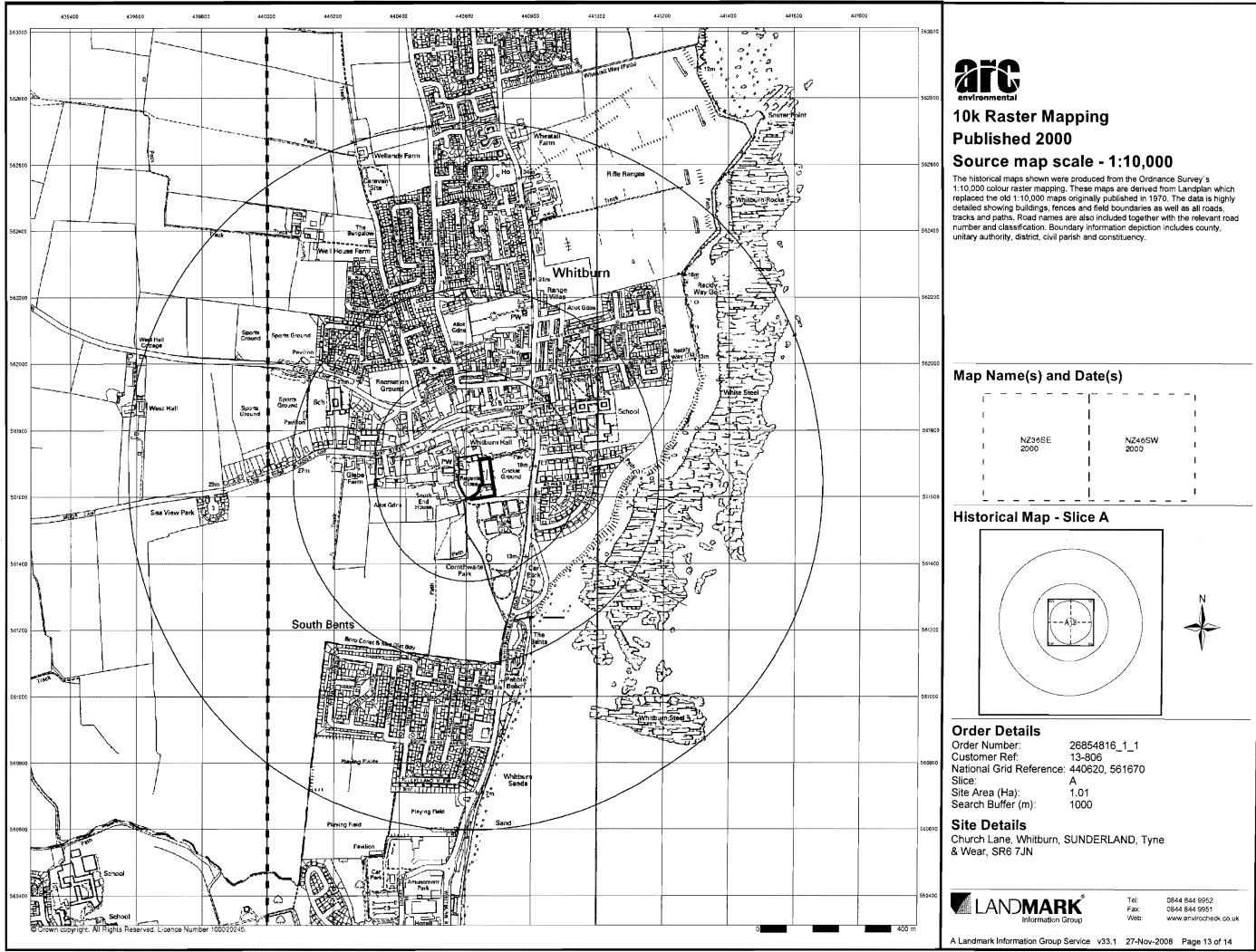
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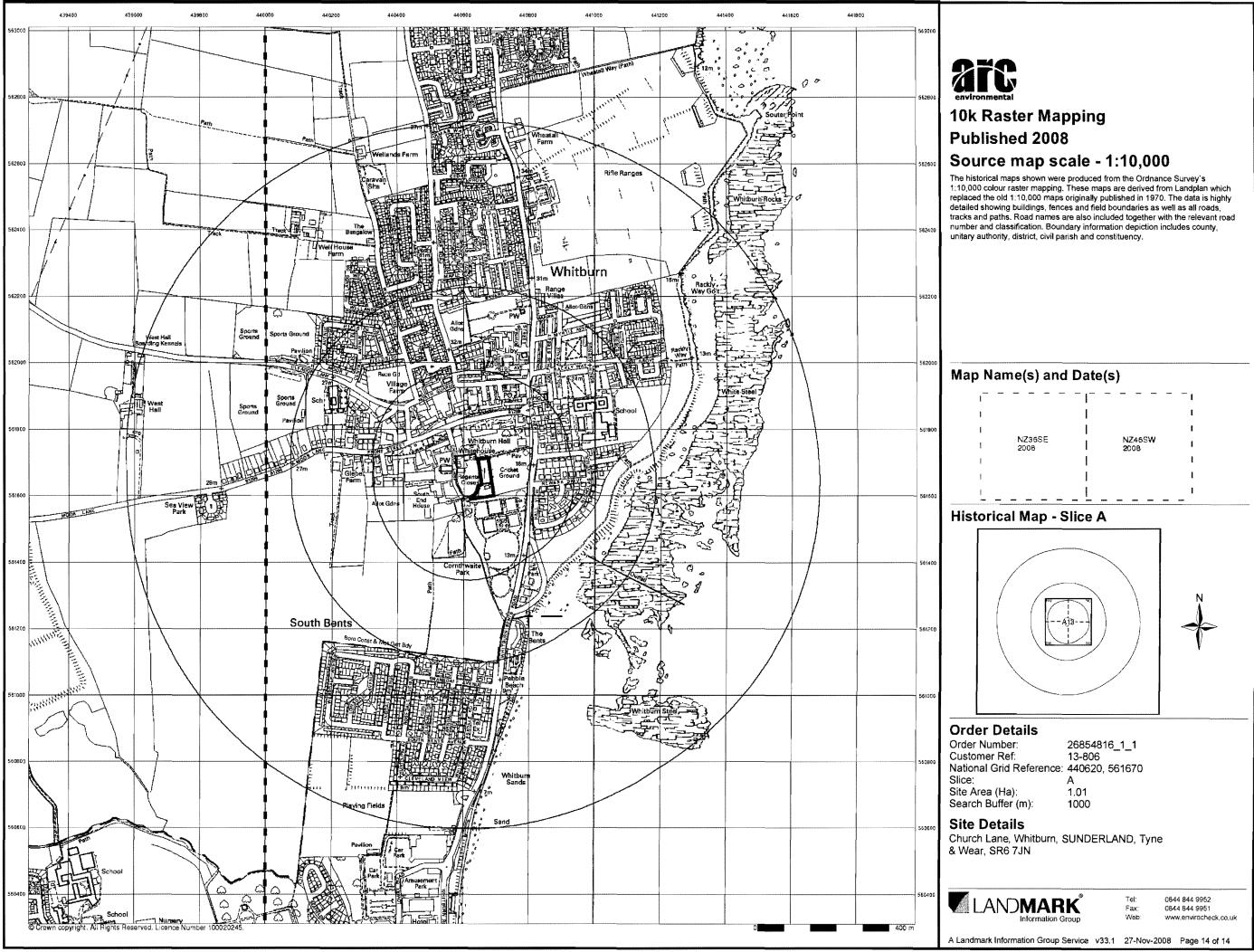
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ational Grid Reference:	440620, 561670
ce:	A
e Area (Ha):	1.01
arch Buffer (m):	250

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A Landmark Information Group Service v33.1 27-Nov-2008 Page 10 of 11









Envirocheck[®]**Report**:

Datasheet

Order Details:

Order Number: 26854816_1_1

Customer Reference:

13-806 National Grid Reference: 440620, 561670

Slice:

A

Site Area (Ha): 1.01

Search Buffer (m): 1000

Site Details:

Church Lane Whitburn SUNDERLAND Tyne & Wear SR6 7JN

Client Details:

Mr K Moir Arc Environmental Ltd The Rivergreen Centre Aykley Heads Durham City Co Durham DH1 5TS







Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	6
Hazardous Substances	-
Geological	7
Industrial Land Use	8
Sensitive Land Use	9
Data Currency	10
Data Suppliers	14
Useful Contacts	15

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and the Health Protection Agency.

Report Version v36.0



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	4	2
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 2			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3			1	7
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 4				(*2)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 5	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS Recorded Mineral Sites					
BGS 1:625,000 Solid Geology	pg 7	Yes	n/a	n/a	n/a
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 7	Yes	n/a	n/a	n/a
Mining Instability	pg 7	Yes	n/a	n/a	n/a
Natural and Mining Cavities					
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 7		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards		Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards			Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 7	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Shallow Mining Hazards				n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 8		2	2	4
Fuel Station Entries	pg 8			1	



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt	pg 9	1			
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites	pg 9			1	
Sites of Special Scientific Interest	pg 9			1	
Special Areas of Conservation	pg 9			1	
Special Protection Areas	pg 9			1	



Map ID	Details			Estimated Distance From Site	Contact	NGR
	Discharge Consent	\$				
1	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Northumbrian Water Limited Sewerage Network - Pumping Station - Water Company Whitburn Steel Ps, Whitburn, Sunderland Environment Agency, North East Region Not Supplied 245/1207 1 14th March 2003 14th March 2003 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Controlled Sea North Sea New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A13SE (SE)	237	1	440750 561400
1	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Northumbrian Water Limited Sewerage Network - Pumping Station - Water Company Whitburn Steel Ps, Whitburn, Sunderland Environment Agency, North East Region Not Supplied 245/1207 1 14th March 2003 14th March 2003 Not Supplied Sewage Discharges - Pumping Station - Water Company Controlled Sea North Sea New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A13SE (SE)	237	1	440750 561400
	Discharge Consent	S				
2	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Northumbrian Water Limited Sewerage Network - Pumping Station - Water Company Whitburn Storm Sewage Overflow, Whitburn Environment Agency, North East Region Wear (Lower) 245/1106 1 23rd September 1994 23rd September 1994 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Controlled Sea North Sea New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A14SW (SE)	366	1	440970 561410
	Discharge Consent					
3	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	North Sea Consent revoked or revised: New Consent issued (Section 37(1)) Located by supplier to within 10m	A8NE (SE)	374	1	440800 561270



Map ID		Details	Quadrant Reference (Compass	Estimated Distance From Site	Contact	NGR
3	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Johnston Construction Limited Sewerage Network - Pumping Station - Others Whitburn Steel Sewerage Excavations, Whitburn, Tyne And Wear Environment Agency, North East Region Not Supplied 245/1082 1 29th October 1993 29th October 1993 29th October 1994 Unspecified Tidal Waters North Sea New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A8NE (SE)	392	1	440800 561250
3	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Sir Robert Mcalpine Sewerage Network - Pumping Station - Others Whitburn Steel Sewerage Excavations, Whitburn, Tyne And Wear Environment Agency, North East Region Not Supplied 245/1065 1 17th August 1993 17th August 1993 21st September 1994 Unspecified Tidal Waters North Sea Authorisation revokedRevoked Located by supplier to within 10m	A8NE (SE)	392	1	440800 561250
4	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Redundant - Northumbrian Water Ltd Undefined Or Other Pumping Station Outfall 1, Whitburn Environment Agency, North East Region Tyne (Lower)/Team/Don 235/X/0529 1 1st July 1987 20th August 1996 Unspecified Tidal Waters North Sea Authorisation revokedRevoked Located by supplier to within 100m	A8NE (S)	562	1	440810 561070
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Redundant - Northumbrian Water Ltd Undefined Or Other Steel Complex Outfall No.A5, Whitburn Environment Agency, North East Region Tyne (Lower)/Team/Don 235/X/0075 1 14th May 1987 14th May 1987 14th May 1987 12th November 1996 Unspecified Tidal Waters North Sea Authorisation revokedRevoked Located by supplier to within 100m	A9NW (SE)	692	1	441270 561270
6	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Iution Prevention and Controls Whitburn Service Station The Bents, Whitburn, SUNDERLAND, Tyne and Wear, SR6 7NT South Tyneside Metropolitan Borough Council, Environmental Health Department 013/1.2(D) Not Supplied Local Authority Pollution Prevention and Control PG1/14 Petrol filling station Permitted Automatically positioned to the address	A8NE (SE)	336	2	440791 561308



Map ID		Details	Quadrant Reference (Compass	Estimated Distance From Site	Contact	NGR
	Nearest Surface Wa	ter Feature	A13SW (W)	147	-	440437 561595
7	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Miscellaneous Premises: Unknown WHITBURN Environment Agency, North East Region Not Given North Sea 4th November 1994 245/004398 Not Given Coastal Water Unknown Category 3 - Minor Incident Located by supplier to within 100m	A8NE (SE)	486	1	440900 561200
8	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity: Positional Accuracy:	Not Given Coastal Water Sewage - Other Category 3 - Minor Incident Located by supplier to within 100m	A8SE (S)	802	1	440700 560800
9	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Other General Premises SEABURN Environment Agency, North East Region Not Given Unnamed Coastal Stream 14th February 1994 255/004113 Not Given Freshwater Stream/River Oil General Spillage Category 3 - Minor Incident Located by supplier to within 100m	A8SW (S)	897	1	440600 560700
10	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Industrial Premises SEABURN Environment Agency, North East Region Not Given North Sea 22nd January 1994 245/004089 Not Given Coastal Water Oil General Spillage Category 3 - Minor Incident Located by supplier to within 100m	A8SE (S)	901	1	440700 560700
11	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Miscellaneous Premises: Unknown WHITBURN Environment Agency, North East Region Not Given Stream Onto Whitburn Beach 18th January 1994 245/004084 Not Given Freshwater Stream/River Other Oil Category 3 - Minor Incident Located by supplier to within 100m	A8SE (S)	916	1	440800 560700



Map ID		Details	Quadrant Reference (Compass	Estimated Distance From Site	Contact	NGR
11	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Surface Water Sewers Seaburn Beach, SEABURN Environment Agency, North East Region Not Given Coastal Stream 23rd February 1994 245/004118 Not Given Coastal Water Oil General Spillage Category 3 - Minor Incident Located by supplier to within 100m	A8SE (S)	917	1	440805 560700
		to Controlled Waters				
11	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity: Positional Accuracy:	Miscellaneous Premises: Unknown SEABURN Environment Agency, North East Region Not Given Stream Onto Whitburn Beach 12th January 1994 245/004085 Not Given Freshwater Stream/River Other Oil Category 3 - Minor Incident Located by supplier to within 100m	A8SE (S)	921	1	440800 560695
11	Pollution Incidents Property Type:	to Controlled Waters Construction/Demolition	A8SE	922	1	440805
	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity: Positional Accuracy:	SEABURN Environment Agency, North East Region Not Given Stream Onto Seaburn Beach 18th January 1994 245/004086 Not Given Not Given Oil General Spillage Category 3 - Minor Incident Located by supplier to within 100m	(S)			560695
	Water Abstractions Operator:	Sunderland Afc Ltd	A6SE	1330	1	439420
	Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date:	Juliaria A ceta 1/24/05/061 1 Pond - Academy Of Light Environment Agency, North East Region Sports Grounds/Facilities: Spray Irrigation - Direct Water may be abstracted from a single point Surface Not Supplied Not Supplied Academy Of Light 01 January 31 December 10th May 2002 Not Supplied Located by supplier to within 10m	(SW)			560980
	Water Abstractions		A6SE	1047	1	439400
	Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Sunderland Afc Ltd 1/24/05/060 1 Borehole - Magnesian Limestone-Academy Of Light-Sunderland Environment Agency, North East Region Sports Grounds/Facilities: Transfer Between Sources Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Academy Of Light 01 April 31 March 1st April 2006 Not Supplied Located by supplier to within 10m	(SW)	1347		439400 560980



Map ID		Details	Quadrant Reference (Compass	Estimated Distance From Site	Contact	NGR
	Groundwater Vulne	erability				
	Geological Classification:	Major Aquifer (Highly permeable) - These are highly permeable formations usually with a known or probable presence of significant fracturing. They may be highly productive and able to support large abstractions for public water supply and other purposes		0	1	440629 561497
	Soil Classification:	Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise				
	Map Sheet: Scale:	Sheet 5 Tyne and Tees 1:100,000				
	Drift Deposits					
	Drift Deposit: Map Sheet: Scale:	Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Sheet 5 Tyne and Tees 1:100,000		0	1	440550 561856
	Extreme Flooding	from Rivers or Sea without Defences				
	None					
	Flooding from Rive	ers or Sea without Defences				
	None					
	Areas Benefiting fr	rom Flood Defences				
	None					
	Flood Water Stora	ge Areas				
	None					
	Flood Defences					
	None					



Waste

Map ID	Details	Quadrant Reference (Compass	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage				
	Name: South Tyneside Metropolitan Borough Council - Has no landfill data to supply		0	5	440732 561238
	Local Authority Landfill Coverage				
	Name: Sunderland City Council - Has supplied landfill data		377	8	440732 561238



Geological

Map ID		Details	Quadrant Reference (Compass	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Magnesian Limestone (Permian)		A14SW (SE)	0	3	441042 561453
	Coal Mining Affecter Description:	ed Areas In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details ar included in the Useful Contacts section of this report.	A10NE e (SE)	0	4	442000 561000
	Mining Instability Mining Evidence: Source: Boundary Quality:	Inconclusive Coal Mining Ove Arup & Partners As Supplied	(E)	0	-	443000 561665
	Potential for Collap No Hazard	osible Ground Stability Hazards				
	Potential for Comp Hazard Potential: Source:	ressible Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	440425 561875
	Potential for Comp Hazard Potential: Source:	ressible Ground Stability Hazards Moderate British Geological Survey, National Geoscience Information Service	A13NW (NW)	219	3	440425 561875
	Potential for Groun Hazard Potential: Source:	d Dissolution Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A12NE (W)	0	3	440000 561665
	Potential for Lands Hazard Potential: Source:	l ide Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	3	440875 561375
	Potential for Runni Hazard Potential: Source:	ng Sand Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	A13NW (N)	0	3	440600 561825
	Potential for Runni Hazard Potential: Source:	ng Sand Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A13NW (N)	98	3	440600 561825
	Potential for Runni Hazard Potential: Source:	ng Sand Ground Stability Hazards Low British Geological Survey, National Geoscience Information Service	A13NW (NW)	219	3	440425 561875
	Potential for Shrink Hazard Potential: Source:	ting or Swelling Clay Ground Stability Hazards Low British Geological Survey, National Geoscience Information Service	A13NW (N)	0	3	440600 561825
	Potential for Shrink Hazard Potential: Source:	ting or Swelling Clay Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	A13NW (N)	98	3	440600 561825
	Potential for Shrink Hazard Potential: Source:	ting or Swelling Clay Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A13NW (NW)	219	3	440425 561875
	Radon Potential - R Affected Area: Source:	Radon Affected Areas The property is not in a radon affected area, as less than 1% of homes are above the action level British Geological Survey, National Geoscience Information Service	A13NW (N)	0	3	440625 561750
		Radon Protection Measures No radon protective measures are necessary in the construction of new dwellings or extensions British Geological Survey, National Geoscience Information Service	A13NW (N)	0	3	440625 561750
	Shallow Mining Haz No Hazard	zards				



Industrial Land Use

Map ID		Details	Quadrant Reference (Compass	Estimated Distance From Site	Contact	NGR
12	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Crystal Creations 18, North Guards, Sunderland, SR6 7AD Glass Engravers & Decorators Inactive Automatically positioned to the address	A13NE (N)	209	-	440698 561925
13	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Wilsons (Whitburn) Ltd 12, East Street, Sunderland, SR6 7BX Hardware Active Automatically positioned to the address	A13NE (NE)	239	-	440812 561905
14	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Whitburn Service Station Whitburn Service Station, Whitburn Bents Road, Sunderland, SR6 7NT Petrol Filling Stations - 24 Hour Inactive Automatically positioned to the address	A8NE (SE)	336	-	440791 561308
15	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Whitburn Cemetery Whitburn Cemetery Lodge, Mill Lane, Sunderland, SR6 7ER Cemeteries & Crematoria Inactive Automatically positioned to the address	A18SE (N)	469	-	440776 562173
16	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Barry Wood 2, Rupert Street, Sunderland, SR6 7AZ Boilers - Servicing, Replacements & Repairs Active Automatically positioned to the address	A18SE (N)	513	-	440753 562225
17	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Product Development Corporation 8, Augusta Terrace, Sunderland, SR6 7ET Distribution Services Active Automatically positioned to the address	A18SE (N)	571	-	440787 562277
18	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Stained Glass Works 6, Sea View Park, SUNDERLAND, SR6 7JS Stained Glass Designers & Producers Active Automatically positioned to the address	A12SW (W)	775	-	439806 561563
19	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Schneidler Electronis Cleveland View, Sunderland, Tyne & Wear, SR6 8AP Electronic Equipment - Manufacturers & Assemblers Inactive Manually positioned to the road within the address or location	A8SW (S)	856	-	440532 560744
20	Fuel Station Entries Name: Location: Brand: Premises Type: Status: Positional Accuracy:	Whitburn Service Station Whitburn Bents Road, SUNDERLAND, Tyne & Wear, SR6 7NT Shell Not Applicable Obsolete Located by supplier to within 100m	A8NE (S)	326	-	440750 561300



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass	Estimated Distance From Site	Contact	NGR
21	Areas of Adopted G Authority: Plan Name: Status: Plan Date:	Green Belt South Tyneside Metropolitan Borough Council, Planning Department Core Strategy Adopted 30th June 2007	A13NE (E)	0	5	440676 561674
22	Ramsar Sites Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Date:	Northumbria Coast Y 10598711.53 Natural England UK11049 Not Supplied	A13SE (SE)	336	7	440901 561381
23	Designation Date: Date Type: Designation Details: Date Type: Designation Date: Date Type: Designation Details: Designation Details: Designation Date: Date Type:	Durham Coast Y 5107820.52 Natural England 1000255 EC Special Protection Area 6th May 1999 Notified Geological Conservation Review 6th May 1999 Notified Local Wildlife Trust Reserve 6th May 1999 Notified National Nature Reserve 6th May 1999 Notified Nature Conservation Review 6th May 1999 Notified Nature Conservation Review 6th May 1999 Notified	A13SE (SE)	336	7	440901 561381
24	Special Areas of Co Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	Durham Coast Y 3895377.48 Natural England UK0030140 Candidate	A13SE (SE)	336	7	440901 561381
25	Special Protection A Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Date:	Areas Northumbria Coast Y 10973758.45 Natural England UK9006131 Not Supplied	A13SE (SE)	336	7	440901 561381



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
South Tyneside Metropolitan Borough Council - Neighbourhood Services	May 2008	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2008	Annual Rolling Update
Discharge Consents		
Environment Agency - North East Region	October 2008	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North East Region	November 2008	As notified
Integrated Pollution Controls		
Environment Agency - North East Region	October 2008	Quarterly
Integrated Pollution Prevention And Control		
Environment Agency - North East Region	October 2008	Quarterly
Local Authority Integrated Pollution Prevention And Control		
South Tyneside Metropolitan Borough Council - Environmental Health Department	August 2008	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	August 2008	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
South Tyneside Metropolitan Borough Council - Environmental Health Department	August 2008	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	August 2008	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		U
South Tyneside Metropolitan Borough Council - Environmental Health Department	August 2008	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	August 2008	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	April 2008	Quarterly
	7.011 2000	Quarterry
Pollution Incidents to Controlled Waters	December 1009	Not Applicable
Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - North East Region	October 2008	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - North East Region	November 2008	As notified
Registered Radioactive Substances		
Environment Agency - North East Region	October 2008	Quarterly
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	September 2007	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	August 2007	Annually
Substantiated Pollution Incident Register		
Environment Agency - North East Region - Northumbria Area	October 2008	Quarterly
Water Abstractions		
Environment Agency - North East Region	October 2008	Quarterly
Water Industry Act Referrals		,
Environment Agency - North East Region	October 2008	Quarterly
		Quarterry
Groundwater Vulnerability Environment Agency - Head Office	January 1999	Not Applicable
	January 1999	
Drift Deposits		Not Applicable
Environment Agency - Head Office	January 1999	Not Applicable
Source Protection Zones		
Environment Agency - Head Office	September 2008	Variable
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	July 2008	Quarterly



Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	October 2008	Quarterly
Areas Benefiting from Flood Defences	October 2008	Querterly
Environment Agency - Head Office	October 2008	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	October 2008	Quarterly
Flood Defences		
Environment Agency - Head Office	October 2008	Quarterly
Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North East Region - Northumbria Area	August 2008	Quarterly
Integrated Pollution Control Registered Waste Sites	, (1900)	Quarterry
Environment Agency - North East Region	October 2008	Quarterly
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North East Region - Northumbria Area	August 2008	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - Northumbria Area	August 2008	Quarterly
Local Authority Landfill Coverage		
South Tyneside Metropolitan Borough Council - Planning Department	May 2000	Not Applicable
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites South Tyneside Metropolitan Borough Council - Planning Department	May 2000	Not Applicable
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	October 2008	Bi-Annually
Explosive Sites	hub: 0000	
Health and Safety Executive	July 2008	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
South Tyneside Metropolitan Borough Council - Planning Department	August 2008	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Planning	January 2008	Annual Rolling Update
Planning Hazardous Substance Consents		
South Tyneside Metropolitan Borough Council - Planning Department	August 2008	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Planning	December 2007	Annual Rolling Update



Geological	Version	Update Cycle
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	October 2008	Bi-Annually
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	November 2002	As notified
		As notified
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2006	As notified
Mining Instability		
Ove Arup & Partners	October 2000	Not Applicable
Natural and Mining Cavities		
Peter Brett Associates	December 2005	Variable
Potential for Collapsible Ground Stability Hazards	January 2008	Appually
British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Compressible Ground Stability Hazards	January 2008	Appuolly
British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2008	Annually
		Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Running Sand Ground Stability Hazards		, and any
British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2008	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	May 2007	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	May 2007	Annually
Shallow Mining Hazards	August 2002	
British Geological Survey - National Geoscience Information Service	August 2002	Not Applicable
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	August 2008	Quarterly
Fuel Station Entries		
Catalist Ltd - (Fuel Station Data)	November 2008	Quarterly



Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt		
Sunderland City Metropolitan Borough Council - Planning	December 1998	As notified
South Tyneside Metropolitan Borough Council - Planning Department	June 2007	As notified
Areas of Unadopted Green Belt		
Sunderland City Metropolitan Borough Council - Planning	December 1998	As notified
South Tyneside Metropolitan Borough Council - Planning Department	September 1999	As notified
Areas of Outstanding Natural Beauty		
Natural England	January 2008	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2008	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	June 2008	Bi-Annually
Marine Nature Reserves		
Natural England	June 2008	Bi-Annually
National Nature Reserves		
Natural England	June 2008	Bi-Annually
National Parks		
Natural England	January 2008	Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2003	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	May 2007	Annually
Ramsar Sites		
Natural England	June 2008	Bi-Annually
Sites of Special Scientific Interest		
Natural England	June 2008	Bi-Annually
Special Areas of Conservation		
Natural England	June 2008	Bi-Annually
Special Protection Areas		
Natural England	June 2008	Bi-Annually
~		



A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Licensed Partner
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEP PAPE Scottish Environment Protection Agency
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	British Geological Survey
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Countryside Council for Wales	CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE 迎公派剂
Natural England	NATURAL ENGLAND
Health Protection Agency	Health Protection Agency
Ove Arup	ARUP
Peter Brett Associates	



Useful Contacts

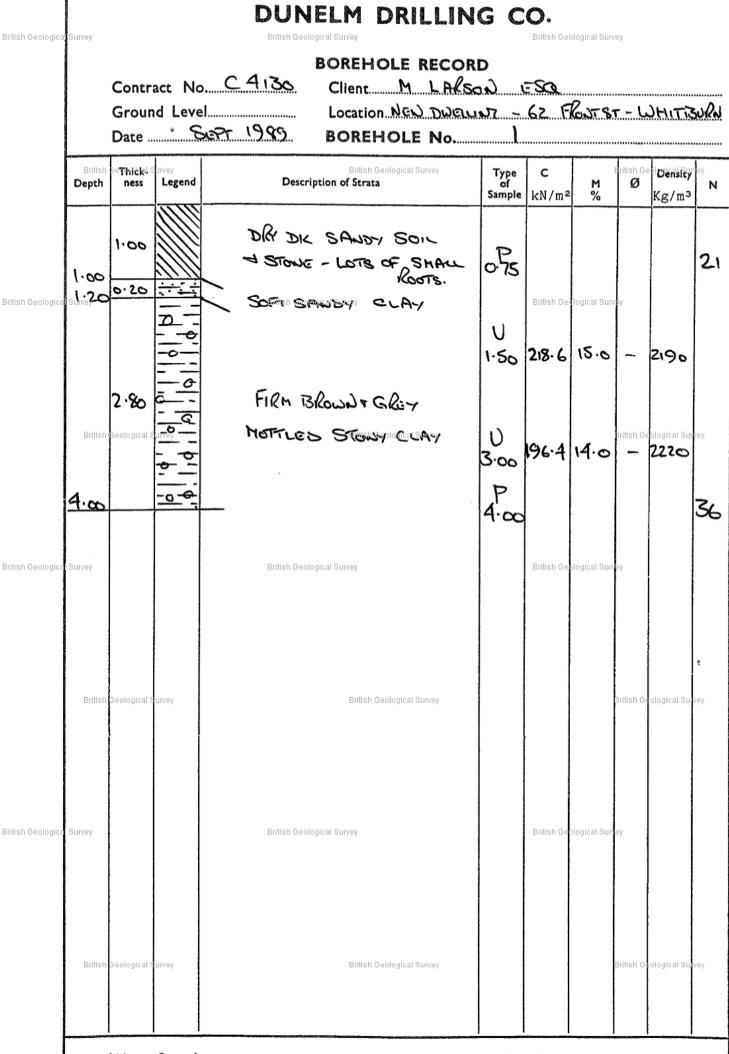
Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	South Tyneside Metropolitan Borough Council - Environmental Health Department Central Library Building, Prince George Square, South Shields, Tyne And Wear, NE33 2PE	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
3	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
5	South Tyneside Metropolitan Borough Council - Planning Department Town Hall & Civic Offices, Westoe Road, South Shields, Tyne & Wear, NE33 2RL	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
6	Sunderland City Metropolitan Borough Council - Planning PO Box 107, Civic Centre, Sunderland, Tyne & Wear, SR2 7DN	Telephone: 0191 553 1000 Fax: 0191 553 1099 Website: www.sunderland.gov.uk
7	Natural England Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	Sunderland City Metropolitan Borough Council - Environmental Health Department Civic Centre, P O Box 107, Burden Road, Sunderland, Tyne And Wear, SR2 7DN	Telephone: 0191 553 1699 Fax: 0191 553 1660 Website: www.sunderland.gov.uk
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0870 850 6670 Fax: 0870 850 6671 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



APPENDIX III

BGS Borehole - NZ46SW193



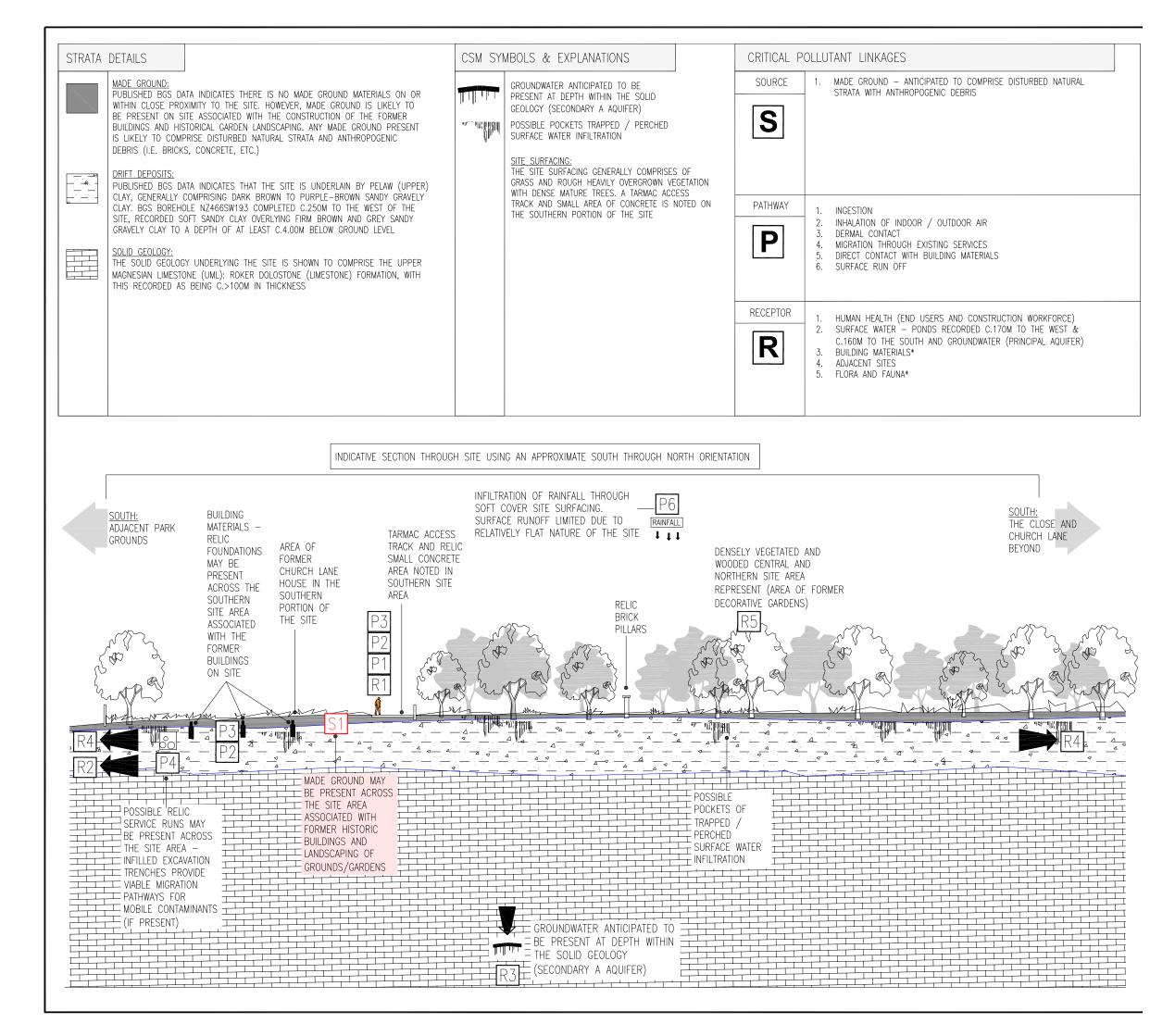
Water Struck at.....

Standing Water Level



APPENDIX IV

Conceptual Site Model (CSM)





ARC ENVIRONMENTAL LTD Solum House Unit 1 Elliott Court St. John's Road Meadowfield Durham, DH7 8PN Tel: (0191) 378 6380 Fax: (0191) 378 0494 e-mail: admin@arc-environmental.com web: www.arc-environmental.com

The contractor shall check all dimensions on site before commencement of any works. No dimensions to be scaled off this drawing. © Copyright Reserved

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rev. date amendments	drawn	chckd
MR & MRS THOMPS	ON	
Project Title: Proposed Site Redevelopment		
Church Lane House, Church Lane		
Whitburn, Sunderland, Tyne & Wear		
Drawing Title:		
Conceptual Site Model		

Scale at A3: NTS @ A3	Date: 15.01.14	I	Drawn by: P.D	Approved by: T.M
Job Ref:		_	-	_
JOD Ref:			Drg no:	Rev: